



Optical Glass

Data Sheets

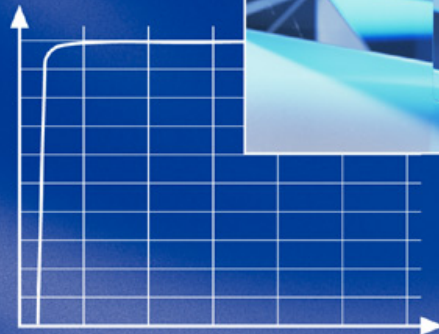


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1) Glass suitable for Precision Molding

N-FK5
487704.245

$n_d = 1.48749$
 $n_e = 1.48914$

$v_d = 70.41$
 $v_e = 70.23$

$n_F - n_C = 0.006924$
 $n_{F'} - n_{C'} = 0.006965$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.461810
$n_{1970.1}$	1970.1	1.467380
$n_{1529.6}$	1529.6	1.473120
$n_{1060.0}$	1060.0	1.478550
n_t	1014.0	1.479120
n_s	852.1	1.481370
n_r	706.5	1.484100
n_C	656.3	1.485350
$n_{C'}$	643.8	1.485690
$n_{632.8}$	632.8	1.486010
n_D	589.3	1.487430
n_d	587.6	1.487490
n_e	546.1	1.489140
n_F	486.1	1.492270
$n_{F'}$	480.0	1.492660
n_g	435.8	1.495930
n_h	404.7	1.498940
n_i	365.0	1.504010
$n_{334.1}$	334.1	1.509390
$n_{312.6}$	312.6	1.514280
$n_{296.7}$	296.7	1.518670
$n_{280.4}$	280.4	1.524150
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	0.844309338
B_2	0.344147824
B_3	0.910790213
C_1	0.00475111955
C_2	0.0149814849
C_3	97.8600293

Constants of Dispersion dn/dT	
D_0	$-7.24 \cdot 10^{-6}$
D_1	$1.58 \cdot 10^{-8}$
D_2	$-9.51 \cdot 10^{-12}$
E_0	$3.51 \cdot 10^{-7}$
E_1	$4.61 \cdot 10^{-10}$
λ_{TK} [μm]	0.156

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-1.5	-1.2	-0.9	-3.5	-3.2	-2.9
+20/ +40	-1.4	-1.0	-0.6	-2.6	-2.3	-2.0
+60/ +80	-1.2	-0.7	-0.3	-2.2	-1.8	-1.4

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.68	0.38
2325	0.83	0.63
1970	0.971	0.930
1530	0.986	0.965
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.998	0.994
500	0.997	0.993
460	0.997	0.993
436	0.997	0.993
420	0.997	0.993
405	0.998	0.994
400	0.998	0.994
390	0.998	0.994
380	0.996	0.990
370	0.997	0.992
365	0.997	0.992
350	0.995	0.987
334	0.989	0.972
320	0.971	0.930
310	0.941	0.860
300	0.870	0.700
290	0.690	0.400
280	0.400	0.110
270	0.070	
260		
250		

Color Code	
λ_{80}/λ_5	30/27
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.3252
$P_{C,s}$	0.574
$P_{d,C}$	0.3097
$P_{e,d}$	0.2388
$P_{g,F}$	0.529
$P_{i,h}$	0.7319
$P'_{s,t}$	0.3232
$P'_{C,s}$	0.6201
$P'_{d,C'}$	0.2584
$P'_{e,d}$	0.2374
$P'_{g,F'}$	0.4704
$P'_{i,h}$	0.7276

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0202
$\Delta P_{C,s}$	0.007
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0036
$\Delta P_{i,g}$	0.0322

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	9.2
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	10.0
T_g [$^{\circ}C$]	466
$T_{10} 13.0$ [$^{\circ}C$]	469
$T_{10} 7.6$ [$^{\circ}C$]	672
c_p [J/(g·K)]	0.808
λ [W/(m·K)]	0.925
ρ [g/cm ³]	2.45
E [10^3 N/mm ²]	62
μ	0.232
K [10^{-6} mm ² /N]	2.91
$HK_{0.1/20}$	520
HG	3
B	1.00
CR	2
FR	1
SR	4
AR	2
PR	2.3

N-FK51A 487845.368

$n_d = 1.48656$
 $n_e = 1.48794$

$v_d = 84.47$
 $v_e = 84.07$

$n_F - n_C = 0.005760$
 $n_{F'} - n_{C'} = 0.005804$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.469580
$n_{1970.1}$	1970.1	1.472710
$n_{1529.6}$	1529.6	1.476080
$n_{1060.0}$	1060.0	1.479590
n_t	1014.0	1.479990
n_s	852.1	1.481650
n_r	706.5	1.483790
n_C	656.3	1.484800
$n_{C'}$	643.8	1.485080
$n_{632.8}$	632.8	1.485340
n_D	589.3	1.486510
n_d	587.6	1.486560
n_e	546.1	1.487940
n_F	486.1	1.490560
$n_{F'}$	480.0	1.490880
n_g	435.8	1.493640
n_h	404.7	1.496180
n_i	365.0	1.500460
$n_{334.1}$	334.1	1.505010
$n_{312.6}$	312.6	1.509110
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	0.971247817
B_2	0.216901417
B_3	0.904651666
C_1	0.00472301995
C_2	0.0153575612
C_3	168.68133

Constants of Dispersion dn/dT	
D_0	$-1.83 \cdot 10^{-5}$
D_1	$-7.89 \cdot 10^{-9}$
D_2	$-1.63 \cdot 10^{-12}$
E_0	$3.74 \cdot 10^{-7}$
E_1	$3.46 \cdot 10^{-10}$
λ_{TK} [μm]	0.150

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-4.9	-4.6	-4.3	-6.9	-6.6	-6.4
+20/ +40	-6.0	-5.7	-5.3	-7.3	-7.0	-6.7
+60/ +80	-6.5	-6.2	-5.8	-7.5	-7.2	-6.9

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.89	0.75
2325	0.93	0.84
1970	0.976	0.940
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.998	0.996
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.997	0.993
436	0.997	0.992
420	0.997	0.992
405	0.997	0.993
400	0.997	0.993
390	0.997	0.992
380	0.995	0.988
370	0.990	0.976
365	0.985	0.963
350	0.948	0.875
334	0.831	0.630
320	0.618	0.300
310	0.428	0.120
300	0.260	0.040
290	0.140	0.010
280	0.060	
270		
260		
250		

Color Code	
λ_{80}/λ_5	34/28
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.2879
$P_{C,s}$	0.5465
$P_{d,C}$	0.3062
$P_{e,d}$	0.2388
$P_{g,F}$	0.5359
$P_{i,h}$	0.7429
$P'_{s,t}$	0.2858
$P'_{C,s}$	0.5909
$P'_{d,C'}$	0.2554
$P'_{e,d}$	0.237
$P'_{g,F'}$	0.4759
$P'_{i,h}$	0.7373

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.1112
$\Delta P_{C,s}$	-0.0533
$\Delta P_{F,e}$	0.011
$\Delta P_{g,F}$	0.0342
$\Delta P_{i,g}$	0.1675

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	12.7
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	14.8
T_g [$^{\circ}C$]	464
$T_{10}^{13.0}$ [$^{\circ}C$]	463
$T_{10}^{7.6}$ [$^{\circ}C$]	527
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.760
ρ [g/cm ³]	3.68
E [10^3 N/mm ²]	73
μ	0.302
K [10^{-6} mm ² /N]	0.70
$HK_{0.1/20}$	345
HG	6
B	1.00
CR	1
FR	0
SR	52.3
AR	2.2
PR	4.3

N-PK51 529770.386

$n_d = 1.52855$
 $n_e = 1.53019$

$v_d = 76.98$
 $v_e = 76.58$

$n_F - n_C = 0.006867$
 $n_{F'} - n_{C'} = 0.006923$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.509870
$n_{1970.1}$	1970.1	1.513120
$n_{1529.6}$	1529.6	1.516650
$n_{1060.0}$	1060.0	1.520450
n_t	1014.0	1.520890
n_s	852.1	1.522780
n_r	706.5	1.525270
n_C	656.3	1.526460
$n_{C'}$	643.8	1.526800
$n_{632.8}$	632.8	1.527110
n_D	589.3	1.528490
n_d	587.6	1.528550
n_e	546.1	1.530190
n_F	486.1	1.533330
$n_{F'}$	480.0	1.533720
n_g	435.8	1.537040
n_h	404.7	1.540100
n_i	365.0	1.545270
$n_{334.1}$	334.1	1.550790
$n_{312.6}$	312.6	1.555790
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.15610775
B_2	0.153229344
B_3	0.785618966
C_1	0.00585597402
C_2	0.0194072416
C_3	140.537046

Constants of Dispersion dn/dT	
D_0	$-1.98 \cdot 10^{-5}$
D_1	$-6.06 \cdot 10^{-9}$
D_2	$1.60 \cdot 10^{-11}$
E_0	$4.16 \cdot 10^{-7}$
E_1	$5.01 \cdot 10^{-10}$
λ_{TK} [μm]	0.134

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	-6.0	-5.7	-5.4	-8.1	-7.8	-7.5
+20/ +40	-7.1	-6.7	-6.4	-8.4	-8.1	-7.7
+60/ +80	-7.5	-7.1	-6.7	-8.6	-8.2	-7.8

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.92	0.81
2325	0.94	0.86
1970	0.976	0.940
1530	0.994	0.985
1060	0.998	0.994
700	0.997	0.992
660	0.996	0.991
620	0.997	0.992
580	0.998	0.995
546	0.998	0.996
500	0.997	0.993
460	0.995	0.988
436	0.994	0.984
420	0.994	0.984
405	0.994	0.986
400	0.994	0.986
390	0.994	0.984
380	0.989	0.973
370	0.982	0.955
365	0.976	0.940
350	0.933	0.840
334	0.815	0.600
320	0.601	0.280
310	0.398	0.100
300	0.210	0.020
290	0.060	
280	0.010	
270		
260		
250		

Color Code	
λ_{80}/λ_5	34/29
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.275
$P_{C,s}$	0.536
$P_{d,C}$	0.3046
$P_{e,d}$	0.2387
$P_{g,F}$	0.5401
$P_{i,h}$	0.7535
$P'_{s,t}$	0.2727
$P'_{C,s}$	0.5797
$P'_{d,C'}$	0.254
$P'_{e,d}$	0.2367
$P'_{g,F'}$	0.4794
$P'_{i,h}$	0.7473

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0991
$\Delta P_{C,s}$	-0.0463
$\Delta P_{F,e}$	0.0088
$\Delta P_{g,F}$	0.0258
$\Delta P_{i,g}$	0.1203

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/K$]	12.4
$\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/K$]	14.1
T_g [$^{\circ}\text{C}$]	487
$T_{10}^{13.0}$ [$^{\circ}\text{C}$]	488
$T_{10}^{7.6}$ [$^{\circ}\text{C}$]	568
c_p [J/(g·K)]	0.620
λ [W/(m·K)]	0.650
ρ [g/cm ³]	3.86
E [10^3 N/mm ²]	74
μ	0.295
K [10^{-6} mm ² /N]	0.54
$HK_{0.1/20}$	415
HG	6
B	1.00
CR	1
FR	0
SR	52.3
AR	3.3
PR	4.3

N-PK52A 497816.375

$n_d = 1.49700$
 $n_e = 1.49845$

$v_d = 81.61$
 $v_e = 81.21$

$n_F - n_C = 0.006090$
 $n_{F'} - n_{C'} = 0.006138$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.479660
$n_{1970.1}$	1970.1	1.482790
$n_{1529.6}$	1529.6	1.486160
$n_{1060.0}$	1060.0	1.489710
n_t	1014.0	1.490120
n_s	852.1	1.491840
n_r	706.5	1.494080
n_C	656.3	1.495140
$n_{C'}$	643.8	1.495440
$n_{632.8}$	632.8	1.495710
n_D	589.3	1.496950
n_d	587.6	1.497000
n_e	546.1	1.498450
n_F	486.1	1.501230
$n_{F'}$	480.0	1.501570
n_g	435.8	1.504500
n_h	404.7	1.507200
n_i	365.0	1.511750
$n_{334.1}$	334.1	1.516580
$n_{312.6}$	312.6	1.520960
$n_{296.7}$	296.7	1.524890
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.029607
B_2	0.1880506
B_3	0.736488165
C_1	0.00516800155
C_2	0.0166658798
C_3	138.964129

Constants of Dispersion dn/dT	
D_0	$-1.97 \cdot 10^{-5}$
D_1	$-5.50 \cdot 10^{-9}$
D_2	$5.28 \cdot 10^{-12}$
E_0	$3.60 \cdot 10^{-7}$
E_1	$2.45 \cdot 10^{-10}$
λ_{TK} [μm]	0.172

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-5.7	-5.4	-5.1	-7.7	-7.4	-7.1
+20/ +40	-6.7	-6.4	-6.0	-8.0	-7.7	-7.4
+60/ +80	-7.1	-6.8	-6.4	-8.1	-7.8	-7.5

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.99	0.97
2325	0.99	0.98
1970	0.996	0.990
1530	0.998	0.994
1060	0.998	0.994
700	0.997	0.993
660	0.997	0.993
620	0.998	0.995
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.997	0.992
436	0.996	0.990
420	0.996	0.990
405	0.997	0.992
400	0.997	0.992
390	0.997	0.992
380	0.996	0.989
370	0.992	0.980
365	0.988	0.970
350	0.950	0.880
334	0.831	0.630
320	0.618	0.300
310	0.428	0.120
300	0.250	0.040
290	0.120	0.010
280	0.040	
270	0.010	
260		
250		

Color Code	
λ_{80}/λ_5	34/28
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.2819
$P_{C,s}$	0.5417
$P_{d,C}$	0.3055
$P_{e,d}$	0.2388
$P_{g,F}$	0.5377
$P_{i,h}$	0.747
$P'_{s,t}$	0.2797
$P'_{C,s}$	0.5858
$P'_{d,C'}$	0.2548
$P'_{e,d}$	0.2369
$P'_{g,F'}$	0.4774
$P'_{i,h}$	0.7412

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.1084
$\Delta P_{C,s}$	-0.0514
$\Delta P_{F,e}$	0.0103
$\Delta P_{g,F}$	0.0311
$\Delta P_{i,g}$	0.1497

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	13.0
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	15.0
T_g [$^{\circ}C$]	467
$T_{10} 13.0$ [$^{\circ}C$]	467
$T_{10} 7.6$ [$^{\circ}C$]	538
c_p [J/(g·K)]	0.670
λ [W/(m·K)]	0.730
ρ [g/cm ³]	3.75
E [10^3 N/mm ²]	71
μ	0.298
K [10^{-6} mm ² /N]	0.67
$HK_{0.1/20}$	355
HG	6
B	1.00
CR	1
FR	0
SR	52.3
AR	3.3
PR	4.3

P-PK53
527662.283

$n_d = 1.52690$	$v_d = 66.22$	$n_F - n_C = 0.007957$
$n_e = 1.52880$	$v_e = 65.92$	$n_{F'} - n_{C'} = 0.008022$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	
$n_{1970.1}$	1970.1	1.508080
$n_{1529.6}$	1529.6	1.512650
$n_{1060.0}$	1060.0	1.517380
n_t	1014.0	1.517920
n_s	852.1	1.520170
n_r	706.5	1.523090
n_C	656.3	1.524470
$n_{C'}$	643.8	1.524860
$n_{632.8}$	632.8	1.525220
n_D	589.3	1.526830
n_d	587.6	1.526900
n_e	546.1	1.528800
n_F	486.1	1.532430
$n_{F'}$	480.0	1.532880
n_g	435.8	1.536730
n_h	404.7	1.540290
n_i	365.0	1.546330
$n_{334.1}$	334.1	1.552800
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.47	0.15
2325	0.57	0.25
1970	0.787	0.550
1530	0.981	0.954
1060	0.998	0.994
700	0.997	0.992
660	0.997	0.992
620	0.998	0.994
580	0.998	0.996
546	0.999	0.997
500	0.998	0.995
460	0.996	0.990
436	0.995	0.987
420	0.994	0.985
405	0.994	0.985
400	0.994	0.985
390	0.990	0.976
380	0.980	0.950
370	0.959	0.900
365	0.941	0.860
350	0.815	0.600
334	0.515	0.190
320	0.181	0.010
310	0.039	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2829
$P_{C,s}$	0.5408
$P_{d,C}$	0.3049
$P_{e,d}$	0.2386
$P_{g,F}$	0.5408
$P_{i,h}$	0.7592
$P'_{s,t}$	0.2806
$P'_{C,s}$	0.5846
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4802
$P'_{i,h}$	0.753

Constants of Dispersion Formula	
B_1	0.960316767
B_2	0.340437227
B_3	0.777865595
C_1	0.00531032986
C_2	0.0175073434
C_3	106.87533

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0354
$\Delta P_{C,s}$	-0.0165
$\Delta P_{F,e}$	0.003
$\Delta P_{g,F}$	0.0084
$\Delta P_{i,g}$	0.0375

Constants of Dispersion dn/dT	
D_0	$-1.65 \cdot 10^{-5}$
D_1	$-5.14 \cdot 10^{-10}$
D_2	$-2.02 \cdot 10^{-11}$
E_0	$4.11 \cdot 10^{-7}$
E_1	$4.17 \cdot 10^{-10}$
λ_{TK} [μm]	0.208

Color Code	
λ_{80}/λ_5	36/31
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	13.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	16.0
T_g [$^\circ\text{C}$]	383
$T_{10} 13.0$ [$^\circ\text{C}$]	390
$T_{10} 7.6$ [$^\circ\text{C}$]	453
c_p [J/(g·K)]	0.770
λ [W/(m·K)]	0.640
ρ [g/cm ³]	2.83
E [10^3 N/mm ²]	59
μ	0.271
K [10^{-6} mm ² /N]	2.06
$HK_{0.1/20}$	335
HG	6
B	1.00
CR	2
FR	1
SR	51
AR	4.3
PR	4.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	-4.9	-4.5	-4.1	-7.0	-6.6	-6.2
+20/ +40	-5.6	-5.2	-4.7	-6.9	-6.5	-6.1
+60/ +80	-6.0	-5.5	-5.0	-7.0	-6.5	-6.0

N-PSK3 552635.291

$n_d = 1.55232$
 $n_e = 1.55440$

$v_d = 63.46$
 $v_e = 63.23$

$n_F - n_C = 0.008704$
 $n_{F'} - n_{C'} = 0.008767$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.523750
$n_{1970.1}$	1970.1	1.529540
$n_{1529.6}$	1529.6	1.535580
$n_{1060.0}$	1060.0	1.541540
n_t	1014.0	1.542180
n_s	852.1	1.544820
n_r	706.5	1.548110
n_C	656.3	1.549650
$n_{C'}$	643.8	1.550080
$n_{632.8}$	632.8	1.550480
n_D	589.3	1.552240
n_d	587.6	1.552320
n_e	546.1	1.554400
n_F	486.1	1.558350
$n_{F'}$	480.0	1.558850
n_g	435.8	1.563020
n_h	404.7	1.566880
n_i	365.0	1.573420
$n_{334.1}$	334.1	1.580410
$n_{312.6}$	312.6	1.586790
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	0.88727211
B_2	0.489592425
B_3	1.04865296
C_1	0.00469824067
C_2	0.0161818463
C_3	104.374975

Constants of Dispersion dn/dT	
D_0	$2.03 \cdot 10^{-6}$
D_1	$1.19 \cdot 10^{-8}$
D_2	$2.46 \cdot 10^{-11}$
E_0	$3.14 \cdot 10^{-7}$
E_1	$2.45 \cdot 10^{-10}$
λ_{TK} [μm]	0.235

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.6	3.1	3.6	0.6	1.0	1.5
+20/ +40	2.5	3.0	3.5	1.2	1.6	2.1
+60/ +80	2.7	3.2	3.8	1.7	2.2	2.7

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.65	0.34
2325	0.81	0.59
1970	0.949	0.877
1530	0.991	0.978
1060	0.999	0.997
700	0.998	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.993
500	0.996	0.990
460	0.995	0.987
436	0.994	0.986
420	0.994	0.986
405	0.995	0.987
400	0.994	0.986
390	0.993	0.983
380	0.991	0.977
370	0.988	0.971
365	0.985	0.964
350	0.967	0.920
334	0.915	0.800
320	0.770	0.520
310	0.583	0.260
300	0.330	0.060
290	0.120	
280	0.030	
270		
260		
250		

Color Code	
λ_{80}/λ_5	33/28
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.3023
$P_{C,s}$	0.5555
$P_{d,C}$	0.3069
$P_{e,d}$	0.2386
$P_{g,F}$	0.5365
$P_{i,h}$	0.7509
$P'_{s,t}$	0.3001
$P'_{C,s}$	0.6002
$P'_{d,C'}$	0.2559
$P'_{e,d}$	0.2369
$P'_{g,F'}$	0.4767
$P'_{i,h}$	0.7454

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0118
$\Delta P_{C,s}$	0.0047
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0005
$\Delta P_{i,g}$	0.0016

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/K$]	6.2
$\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/K$]	7.3
T_g [$^{\circ}\text{C}$]	599
$T_{10} 13.0$ [$^{\circ}\text{C}$]	597
$T_{10} 7.6$ [$^{\circ}\text{C}$]	736
c_p [J/(g·K)]	0.682
λ [W/(m·K)]	0.990
ρ [g/cm ³]	2.91
E [10^3 N/mm ²]	84
μ	0.226
K [10^{-6} mm ² /N]	2.48
$HK_{0.1/20}$	630
HG	2
B	1.00
CR	3
FR	0
SR	2.2
AR	2
PR	2

N-PSK53 620635.360

$n_d = 1.62014$	$v_d = 63.48$	$n_F - n_C = 0.009769$
$n_e = 1.62247$	$v_e = 63.19$	$n_F' - n_C' = 0.009851$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.592160
$n_{1970.1}$	1970.1	1.597320
$n_{1529.6}$	1529.6	1.602800
$n_{1060.0}$	1060.0	1.608510
n_t	1014.0	1.609170
n_s	852.1	1.611910
n_r	706.5	1.615470
n_C	656.3	1.617170
$n_{C'}$	643.8	1.617640
$n_{632.8}$	632.8	1.618080
n_D	589.3	1.620050
n_d	587.6	1.620140
n_e	546.1	1.622470
n_F	486.1	1.626940
$n_{F'}$	480.0	1.627490
n_g	435.8	1.632230
n_h	404.7	1.636620
n_i	365.0	1.644090
$n_{334.1}$	334.1	1.652110
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.61	0.29
2325	0.76	0.51
1970	0.915	0.800
1530	0.982	0.956
1060	0.998	0.994
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.998	0.994
546	0.998	0.995
500	0.997	0.992
460	0.994	0.986
436	0.993	0.982
420	0.992	0.979
405	0.988	0.970
400	0.985	0.964
390	0.976	0.940
380	0.959	0.900
370	0.928	0.830
365	0.905	0.780
350	0.776	0.530
334	0.525	0.200
320	0.230	0.030
310	0.061	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2803
$P_{C,s}$	0.5384
$P_{d,C}$	0.3045
$P_{e,d}$	0.2385
$P_{g,F}$	0.5423
$P_{i,h}$	0.7641
$P'_{s,t}$	0.2779
$P'_{C,s}$	0.582
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4814
$P'_{i,h}$	0.7577

Constants of Dispersion Formula	
B_1	1.3434087
B_2	0.241417935
B_3	0.952896897
C_1	0.00675074317
C_2	0.0219910513
C_3	103.551457

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0274
$\Delta P_{C,s}$	-0.0125
$\Delta P_{F,e}$	0.002
$\Delta P_{g,F}$	0.0053
$\Delta P_{i,g}$	0.0214

Constants of Dispersion dn/dT	
D_0	$-9.29 \cdot 10^{-6}$
D_1	$5.78 \cdot 10^{-9}$
D_2	$8.87 \cdot 10^{-13}$
E_0	$4.59 \cdot 10^{-7}$
E_1	$5.86 \cdot 10^{-10}$
λ_{TK} [μm]	0.155

Color Code	
λ_{80}/λ_5	36/31
(*= λ_{70}/λ_5)	

Remarks
Will become inquiry glass as of May 2008

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	10.9
T_g [$^\circ\text{C}$]	618
$T_{10}^{13.0}$ [$^\circ\text{C}$]	606
$T_{10}^{7.6}$ [$^\circ\text{C}$]	709
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.60
E [10^3 N/mm ²]	78
μ	0.288
K [10^{-6} mm ² /N]	1.16
$HK_{0.1/20}$	440
HG	6
θ_B	1.00
CR	2
FR	1
SR	52.3
AR	1.2
PR	4.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	-2.5	-2.0	-1.5	-4.7	-4.2	-3.8
+20/ +40	-2.9	-2.3	-1.8	-4.3	-3.8	-3.2
+60/ +80	-3.0	-2.3	-1.7	-4.1	-3.4	-2.8

N-PSK53A 618634.357

$n_d = 1.61800$	$v_d = 63.39$	$n_F - n_C = 0.009749$
$n_e = 1.62033$	$v_e = 63.10$	$n_F' - n_C' = 0.009831$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.590150
$n_{1970.1}$	1970.1	1.595280
$n_{1529.6}$	1529.6	1.600730
$n_{1060.0}$	1060.0	1.606410
n_t	1014.0	1.607060
n_s	852.1	1.609790
n_r	706.5	1.613340
n_C	656.3	1.615030
$n_{C'}$	643.8	1.615500
$n_{632.8}$	632.8	1.615950
n_D	589.3	1.617910
n_d	587.6	1.618000
n_e	546.1	1.620330
n_F	486.1	1.624780
$n_{F'}$	480.0	1.625340
n_g	435.8	1.630070
n_h	404.7	1.634450
n_i	365.0	1.641900
$n_{334.1}$	334.1	1.649910
$n_{312.6}$	312.6	1.657240
$n_{296.7}$	296.7	1.663900
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.61	0.29
2325	0.76	0.51
1970	0.915	0.800
1530	0.982	0.956
1060	0.998	0.994
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.998	0.994
546	0.998	0.995
500	0.997	0.992
460	0.994	0.986
436	0.993	0.982
420	0.992	0.979
405	0.988	0.970
400	0.985	0.964
390	0.976	0.940
380	0.959	0.900
370	0.928	0.830
365	0.905	0.780
350	0.776	0.530
334	0.525	0.200
320	0.230	0.030
310	0.061	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2797
$P_{C,s}$	0.538
$P_{d,C}$	0.3044
$P_{e,d}$	0.2385
$P_{g,F}$	0.5424
$P_{i,h}$	0.7642
$P'_{s,t}$	0.2774
$P'_{C,s}$	0.5816
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4815
$P'_{i,h}$	0.7578

Constants of Dispersion Formula	
B_1	1.38121836
B_2	0.196745645
B_3	0.886089205
C_1	0.00706416337
C_2	0.0233251345
C_3	97.4847345

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0279
$\Delta P_{C,s}$	-0.0127
$\Delta P_{F,e}$	0.002
$\Delta P_{g,F}$	0.0052
$\Delta P_{i,g}$	0.0208

Constants of Dispersion dn/dT	
D_0	$-9.28 \cdot 10^{-6}$
D_1	$7.19 \cdot 10^{-9}$
D_2	$1.45 \cdot 10^{-12}$
E_0	$4.06 \cdot 10^{-7}$
E_1	$3.17 \cdot 10^{-10}$
λ_{TK} [μm]	0.190

Color Code	
λ_{80}/λ_5	36/31
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	10.8
T_g [$^\circ\text{C}$]	606
$T_{10}^{13.0}$ [$^\circ\text{C}$]	609
$T_{10}^{7.6}$ [$^\circ\text{C}$]	699
c_p [J/(g·K)]	0.590
λ [W/(m·K)]	0.640
ρ [g/cm ³]	3.57
E [10^3 N/mm ²]	76
μ	0.288
K [10^{-6} mm ² /N]	1.16
$HK_{0.1/20}$	415
HG	6
B	1.00
CR	1
FR	1
SR	53.3
AR	2.3
PR	4.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	-2.6	-2.1	-1.6	-4.7	-4.3	-3.8
+20/ +40	-2.9	-2.4	-1.8	-4.3	-3.8	-3.3
+60/ +80	-2.9	-2.3	-1.8	-4.0	-3.5	-2.9

N-BK7
517642.251

$n_d = 1.51680$	$v_d = 64.17$	$n_F - n_C = 0.008054$
$n_e = 1.51872$	$v_e = 63.96$	$n_{F'} - n_{C'} = 0.008110$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.489210
$n_{1970.1}$	1970.1	1.494950
$n_{1529.6}$	1529.6	1.500910
$n_{1060.0}$	1060.0	1.506690
n_t	1014.0	1.507310
n_s	852.1	1.509800
n_r	706.5	1.512890
n_C	656.3	1.514320
$n_{C'}$	643.8	1.514720
$n_{632.8}$	632.8	1.515090
n_D	589.3	1.516730
n_d	587.6	1.516800
n_e	546.1	1.518720
n_F	486.1	1.522380
$n_{F'}$	480.0	1.522830
n_g	435.8	1.526680
n_h	404.7	1.530240
n_i	365.0	1.536270
$n_{334.1}$	334.1	1.542720
$n_{312.6}$	312.6	1.548620
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.67	0.36
2325	0.79	0.56
1970	0.933	0.840
1530	0.992	0.980
1060	0.999	0.997
700	0.998	0.996
660	0.998	0.994
620	0.998	0.994
580	0.998	0.995
546	0.998	0.996
500	0.998	0.994
460	0.997	0.993
436	0.997	0.992
420	0.997	0.993
405	0.997	0.993
400	0.997	0.992
390	0.996	0.989
380	0.993	0.983
370	0.991	0.977
365	0.988	0.971
350	0.967	0.920
334	0.905	0.780
320	0.770	0.520
310	0.574	0.250
300	0.290	0.050
290	0.060	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.3098
$P_{C,s}$	0.5612
$P_{d,C}$	0.3076
$P_{e,d}$	0.2386
$P_{g,F}$	0.5349
$P_{i,h}$	0.7483
$P'_{s,t}$	0.3076
$P'_{C,s}$	0.6062
$P'_{d,C'}$	0.2566
$P'_{e,d}$	0.237
$P'_{g,F'}$	0.4754
$P'_{i,h}$	0.7432

Constants of Dispersion Formula	
B_1	1.03961212
B_2	0.231792344
B_3	1.01046945
C_1	0.00600069867
C_2	0.0200179144
C_3	103.560653

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0216
$\Delta P_{C,s}$	0.0087
$\Delta P_{F,e}$	-0.0009
$\Delta P_{g,F}$	-0.0009
$\Delta P_{i,g}$	0.0035

Constants of Dispersion dn/dT	
D_0	$1.86 \cdot 10^{-6}$
D_1	$1.31 \cdot 10^{-8}$
D_2	$-1.37 \cdot 10^{-11}$
E_0	$4.34 \cdot 10^{-7}$
E_1	$6.27 \cdot 10^{-10}$
λ_{TK} [μm]	0.170

Color Code	
λ_{80}/λ_5	33/29
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.3
T_g [$^\circ\text{C}$]	557
$T_{10}^{13.0}$ [$^\circ\text{C}$]	557
$T_{10}^{7.6}$ [$^\circ\text{C}$]	719
c_p [J/(g·K)]	0.858
λ [W/(m·K)]	1.114
ρ [g/cm ³]	2.51
E [10^3 N/mm ²]	82
μ	0.206
K [10^{-6} mm ² /N]	2.77
$HK_{0.1/20}$	610
HG	3
B	0.00
CR	2
FR	0
SR	1
AR	2
PR	2.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.4	2.9	3.3	0.3	0.8	1.2
+20/ +40	2.4	3.0	3.5	1.1	1.6	2.1
+60/ +80	2.5	3.1	3.7	1.5	2.1	2.7

N-BK10 498670.239

$n_d = 1.49782$
 $n_e = 1.49960$

$v_d = 66.95$
 $v_e = 66.78$

$n_F - n_C = 0.007435$
 $n_{F'} - n_{C'} = 0.007481$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.470600
$n_{1970.1}$	1970.1	1.476470
$n_{1529.6}$	1529.6	1.482520
$n_{1060.0}$	1060.0	1.488270
n_t	1014.0	1.488870
n_s	852.1	1.491270
n_r	706.5	1.494190
n_C	656.3	1.495520
$n_{C'}$	643.8	1.495890
$n_{632.8}$	632.8	1.496230
n_D	589.3	1.497750
n_d	587.6	1.497820
n_e	546.1	1.499600
n_F	486.1	1.502960
$n_{F'}$	480.0	1.503370
n_g	435.8	1.506900
n_h	404.7	1.510140
n_i	365.0	1.515610
$n_{334.1}$	334.1	1.521440
$n_{312.6}$	312.6	1.526740
$n_{296.7}$	296.7	1.531510
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	0.888308131
B_2	0.328964475
B_3	0.984610769
C_1	0.00516900822
C_2	0.0161190045
C_3	99.7575331

Constants of Dispersion dn/dT	
D_0	$3.32 \cdot 10^{-6}$
D_1	$1.72 \cdot 10^{-8}$
D_2	$-2.05 \cdot 10^{-11}$
E_0	$3.57 \cdot 10^{-7}$
E_1	$3.90 \cdot 10^{-10}$
λ_{TK} [μm]	0.169

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.7	3.1	3.5	0.7	1.1	1.4
+20/ +40	2.9	3.4	3.8	1.6	2.1	2.5
+60/ +80	3.1	3.7	4.1	2.1	2.6	3.1

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.74	0.47
2325	0.87	0.71
1970	0.980	0.950
1530	0.992	0.980
1060	0.998	0.996
700	0.998	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.993
500	0.996	0.991
460	0.996	0.990
436	0.996	0.989
420	0.996	0.989
405	0.996	0.990
400	0.996	0.990
390	0.996	0.989
380	0.994	0.985
370	0.994	0.986
365	0.994	0.986
350	0.991	0.978
334	0.978	0.947
320	0.941	0.860
310	0.872	0.710
300	0.710	0.420
290	0.410	0.110
280	0.120	
270	0.010	
260		
250		

Color Code	
λ_{80}/λ_5	31/27
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.3224
$P_{C,s}$	0.5716
$P_{d,C}$	0.3093
$P_{e,d}$	0.2387
$P_{g,F}$	0.5303
$P_{i,h}$	0.736
$P'_{s,t}$	0.3204
$P'_{C,s}$	0.6174
$P'_{d,C'}$	0.258
$P'_{e,d}$	0.2373
$P'_{g,F'}$	0.4716
$P'_{i,h}$	0.7315

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0314
$\Delta P_{C,s}$	0.0126
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	-0.0008
$\Delta P_{i,g}$	0.0091

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	5.8
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	6.6
T_g [$^{\circ}C$]	551
$T_{10}^{13.0}$ [$^{\circ}C$]	0
$T_{10}^{7.6}$ [$^{\circ}C$]	753
c_p [J/(g·K)]	0.810
λ [W/(m·K)]	1.320
ρ [g/cm ³]	2.39
E [10^3 N/mm ²]	71
μ	0.203
K [10^{-6} mm ² /N]	3.21
$HK_{0.1/20}$	560
HG	4
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

K7
511604.253

$n_d = 1.51112$	$v_d = 60.41$	$n_F - n_C = 0.008461$
$n_e = 1.51314$	$v_e = 60.15$	$n_{F'} - n_{C'} = 0.008531$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.485530
$n_{1970.1}$	1970.1	1.490460
$n_{1529.6}$	1529.6	1.495650
$n_{1060.0}$	1060.0	1.500910
n_t	1014.0	1.501500
n_s	852.1	1.503940
n_r	706.5	1.507070
n_C	656.3	1.508540
$n_{C'}$	643.8	1.508950
$n_{632.8}$	632.8	1.509340
n_D	589.3	1.511050
n_d	587.6	1.511120
n_e	546.1	1.513140
n_F	486.1	1.517000
$n_{F'}$	480.0	1.517480
n_g	435.8	1.521590
n_h	404.7	1.525400
n_i	365.0	1.531890
$n_{334.1}$	334.1	1.538910
$n_{312.6}$	312.6	1.545370
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.65	0.34
2325	0.76	0.50
1970	0.910	0.790
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.997	0.993
460	0.996	0.990
436	0.996	0.990
420	0.996	0.990
405	0.996	0.990
400	0.996	0.990
390	0.995	0.988
380	0.993	0.983
370	0.990	0.976
365	0.988	0.971
350	0.976	0.940
334	0.905	0.780
320	0.707	0.420
310	0.398	0.100
300	0.090	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.288
$P_{C,s}$	0.5436
$P_{d,C}$	0.3049
$P_{e,d}$	0.2385
$P_{g,F}$	0.5422
$P_{i,h}$	0.7677
$P'_{s,t}$	0.2857
$P'_{C,s}$	0.5874
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4814
$P'_{i,h}$	0.7614

Constants of Dispersion Formula	
B_1	1.1273555
B_2	0.124412303
B_3	0.827100531
C_1	0.00720341707
C_2	0.0269835916
C_3	100.384588

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0001
$\Delta P_{C,s}$	-0.0001
$\Delta P_{F,e}$	0
$\Delta P_{g,F}$	0
$\Delta P_{i,g}$	-0.0001

Constants of Dispersion dn/dT	
D_0	$-1.67 \cdot 10^{-6}$
D_1	$8.80 \cdot 10^{-9}$
D_2	$-2.86 \cdot 10^{-11}$
E_0	$5.42 \cdot 10^{-7}$
E_1	$7.81 \cdot 10^{-10}$
λ_{TK} [μm]	0.172

Color Code	
λ_{80}/λ_5	33/30
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	8.4
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	9.7
T_g [$^\circ C$]	513
$T_{10}^{13.0}$ [$^\circ C$]	0
$T_{10}^{7.6}$ [$^\circ C$]	712
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	2.53
E [10^3 N/mm ²]	69
μ	0.214
K [10^{-6} mm ² /N]	2.95
$HK_{0.1/20}$	520
HG	3
B	1.00
CR	3
FR	0
SR	2
AR	1
PR	2.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^\circ C$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.0	1.6	2.1	-1.0	-0.4	0.1
+20/ +40	0.9	1.6	2.2	-0.4	0.2	0.9
+60/ +80	0.8	1.6	2.3	-0.2	0.6	1.2

K10
501564.252

$n_d = 1.50137$	$v_d = 56.41$	$n_F - n_C = 0.008888$
$n_e = 1.50349$	$v_e = 56.15$	$n_F' - n_C' = 0.008967$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.475070
$n_{1970.1}$	1970.1	1.480080
$n_{1529.6}$	1529.6	1.485360
$n_{1060.0}$	1060.0	1.490760
n_t	1014.0	1.491370
n_s	852.1	1.493890
n_r	706.5	1.497130
n_C	656.3	1.498670
$n_{C'}$	643.8	1.499100
$n_{632.8}$	632.8	1.499500
n_D	589.3	1.501290
n_d	587.6	1.501370
n_e	546.1	1.503490
n_F	486.1	1.507560
$n_{F'}$	480.0	1.508070
n_g	435.8	1.512430
n_h	404.7	1.516490
n_i	365.0	1.523500
$n_{334.1}$	334.1	1.531200
$n_{312.6}$	312.6	1.538440
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.77	0.52
2325	0.83	0.63
1970	0.937	0.850
1530	0.993	0.983
1060	0.998	0.996
700	0.999	0.997
660	0.998	0.994
620	0.997	0.993
580	0.997	0.993
546	0.997	0.992
500	0.996	0.991
460	0.996	0.990
436	0.995	0.988
420	0.995	0.988
405	0.995	0.987
400	0.994	0.986
390	0.993	0.982
380	0.989	0.973
370	0.986	0.966
365	0.983	0.958
350	0.963	0.910
334	0.877	0.720
320	0.626	0.310
310	0.370	0.130
300	0.140	0.020
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2835
$P_{C,s}$	0.5385
$P_{d,C}$	0.3037
$P_{e,d}$	0.2382
$P_{g,F}$	0.5475
$P_{i,h}$	0.7888
$P'_{s,t}$	0.281
$P'_{C,s}$	0.5817
$P'_{d,C'}$	0.2531
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.486
$P'_{i,h}$	0.7819

Constants of Dispersion Formula	
B_1	1.15687082
B_2	0.0642625444
B_3	0.872376139
C_1	0.00809424251
C_2	0.0386051284
C_3	104.74773

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0094
$\Delta P_{C,s}$	0.0041
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0015
$\Delta P_{i,g}$	-0.0048

Constants of Dispersion dn/dT	
D_0	$4.86 \cdot 10^{-6}$
D_1	$1.72 \cdot 10^{-8}$
D_2	$-3.02 \cdot 10^{-11}$
E_0	$3.82 \cdot 10^{-7}$
E_1	$4.53 \cdot 10^{-10}$
λ_{TK} [μm]	0.260

Color Code	
λ_{80}/λ_5	33/30
(* = λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.4
T_g [$^\circ\text{C}$]	459
$T_{10}^{13.0}$ [$^\circ\text{C}$]	453
$T_{10}^{7.6}$ [$^\circ\text{C}$]	691
c_p [J/(g·K)]	0.770
λ [W/(m·K)]	1.120
ρ [g/cm ³]	2.52
E [10^3 N/mm ²]	65
μ	0.190
K [10^{-6} mm ² /N]	3.12
$HK_{0.1/20}$	470
HG	4
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1.2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.3	3.9	4.5	1.3	1.8	2.4
+20/ +40	3.6	4.2	4.9	2.3	2.9	3.6
+60/ +80	3.8	4.5	5.2	2.8	3.4	4.2

N-K5
522595.259

$n_d = 1.52249$	$v_d = 59.48$	$n_F - n_C = 0.008784$
$n_e = 1.52458$	$v_e = 59.22$	$n_F' - n_C' = 0.008858$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.496560
$n_{1970.1}$	1970.1	1.501460
$n_{1529.6}$	1529.6	1.506640
$n_{1060.0}$	1060.0	1.511970
n_t	1014.0	1.512570
n_s	852.1	1.515070
n_r	706.5	1.518290
n_C	656.3	1.519820
$n_{C'}$	643.8	1.520240
$n_{632.8}$	632.8	1.520640
n_D	589.3	1.522410
n_d	587.6	1.522490
n_e	546.1	1.524580
n_F	486.1	1.528600
$n_{F'}$	480.0	1.529100
n_g	435.8	1.533380
n_h	404.7	1.537340
n_i	365.0	1.544120
$n_{334.1}$	334.1	1.551450
$n_{312.6}$	312.6	1.558210
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.78	0.53
2325	0.85	0.66
1970	0.946	0.870
1530	0.994	0.986
1060	0.998	0.995
700	0.998	0.994
660	0.997	0.992
620	0.997	0.993
580	0.998	0.995
546	0.998	0.995
500	0.997	0.993
460	0.996	0.991
436	0.996	0.991
420	0.996	0.991
405	0.996	0.989
400	0.995	0.988
390	0.994	0.984
380	0.991	0.977
370	0.985	0.962
365	0.982	0.956
350	0.950	0.880
334	0.831	0.630
320	0.536	0.210
310	0.221	0.020
300	0.060	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2843
$P_{C,s}$	0.5404
$P_{d,C}$	0.3044
$P_{e,d}$	0.2384
$P_{g,F}$	0.5438
$P_{i,h}$	0.7717
$P'_{s,t}$	0.2819
$P'_{C,s}$	0.5839
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4828
$P'_{i,h}$	0.7653

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0025
$\Delta P_{C,s}$	-0.0012
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0
$\Delta P_{i,g}$	-0.0019

Constants of Dispersion Formula	
B_1	1.08511833
B_2	0.199562005
B_3	0.930511663
C_1	0.00661099503
C_2	0.024110866
C_3	111.982777

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.6
T_g [$^\circ\text{C}$]	546
$T_{10}^{13.0}$ [$^\circ\text{C}$]	540
$T_{10}^{7.6}$ [$^\circ\text{C}$]	720
c_p [J/(g·K)]	0.783
λ [W/(m·K)]	0.950
ρ [g/cm ³]	2.59
E [10^3 N/mm ²]	71
μ	0.224
K [10^{-6} mm ² /N]	3.03
$HK_{0.1/20}$	530
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

Constants of Dispersion dn/dT	
D_0	$-4.13 \cdot 10^{-7}$
D_1	$1.03 \cdot 10^{-8}$
D_2	$-3.40 \cdot 10^{-11}$
E_0	$4.73 \cdot 10^{-7}$
E_1	$5.19 \cdot 10^{-10}$
λ_{TK} [μm]	0.213

Color Code	
λ_{80}/λ_5	34/30
(* = λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.5	2.1	2.6	-0.6	0.0	0.5
+20/ +40	1.4	2.1	2.7	0.1	0.7	1.4
+60/ +80	1.4	2.1	2.8	0.4	1.1	1.8

N-ZK7
508612.249

$n_d = 1.50847$	$v_d = 61.19$	$n_F - n_C = 0.008310$
$n_e = 1.51045$	$v_e = 60.98$	$n_F' - n_C' = 0.008370$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.480620
$n_{1970.1}$	1970.1	1.486370
$n_{1529.6}$	1529.6	1.492330
$n_{1060.0}$	1060.0	1.498130
n_t	1014.0	1.498760
n_s	852.1	1.501290
n_r	706.5	1.504450
n_C	656.3	1.505920
$n_{C'}$	643.8	1.506330
$n_{632.8}$	632.8	1.506710
n_D	589.3	1.508400
n_d	587.6	1.508470
n_e	546.1	1.510450
n_F	486.1	1.514230
$n_{F'}$	480.0	1.514700
n_g	435.8	1.518690
n_h	404.7	1.522380
n_i	365.0	1.528650
$n_{334.1}$	334.1	1.535380
$n_{312.6}$	312.6	1.541550
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.66	0.35
2325	0.85	0.66
1970	0.971	0.930
1530	0.990	0.976
1060	0.998	0.994
700	0.998	0.996
660	0.998	0.994
620	0.998	0.994
580	0.998	0.995
546	0.998	0.995
500	0.997	0.993
460	0.995	0.988
436	0.994	0.984
420	0.992	0.981
405	0.991	0.977
400	0.990	0.975
390	0.987	0.969
380	0.982	0.956
370	0.976	0.940
365	0.971	0.930
350	0.941	0.860
334	0.852	0.670
320	0.686	0.390
310	0.492	0.170
300	0.220	0.030
290	0.030	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.3049
$P_{C,s}$	0.557
$P_{d,C}$	0.3069
$P_{e,d}$	0.2386
$P_{g,F}$	0.537
$P_{i,h}$	0.7543
$P'_{s,t}$	0.3027
$P'_{C,s}$	0.6017
$P'_{d,C'}$	0.256
$P'_{e,d}$	0.2369
$P'_{g,F'}$	0.4771
$P'_{i,h}$	0.7488

Constants of Dispersion Formula	
B_1	1.07715032
B_2	0.168079109
B_3	0.851889892
C_1	0.00676601657
C_2	0.0230642817
C_3	89.0498778

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0267
$\Delta P_{C,s}$	0.0115
$\Delta P_{F,e}$	-0.0017
$\Delta P_{g,F}$	-0.0039
$\Delta P_{i,g}$	-0.0129

Constants of Dispersion dn/dT	
D_0	$1.15 \cdot 10^{-5}$
D_1	$1.73 \cdot 10^{-8}$
D_2	$-8.06 \cdot 10^{-11}$
E_0	$4.32 \cdot 10^{-7}$
E_1	$7.05 \cdot 10^{-10}$
λ_{TK} [μm]	0.179

Color Code	
λ_{80}/λ_5	34/29
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	4.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.2
T_g [$^\circ\text{C}$]	539
$T_{10}^{13.0}$ [$^\circ\text{C}$]	0
$T_{10}^{7.6}$ [$^\circ\text{C}$]	721
c_p [J/(g·K)]	0.770
λ [W/(m·K)]	1.042
ρ [g/cm ³]	2.49
E [10^3 N/mm ²]	70
μ	0.214
K [10^{-6} mm ² /N]	3.63
$HK_{0.1/20}$	530
HG	4
B	1.00
CR	1
FR	0
SR	2
AR	1.2
PR	2.2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	5.9	6.5	7.0	3.9	4.5	4.9
+20/ +40	6.4	7.0	7.6	5.1	5.7	6.3
+60/ +80	6.4	7.2	7.8	5.4	6.2	6.8

N-BAK1
573576.319

$n_d = 1.57250$
 $n_e = 1.57487$

$v_d = 57.55$
 $v_e = 57.27$

$n_F - n_C = 0.009948$
 $n_{F'} - n_{C'} = 0.010039$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.545560
$n_{1970.1}$	1970.1	1.550320
$n_{1529.6}$	1529.6	1.555430
$n_{1060.0}$	1060.0	1.560880
n_t	1014.0	1.561520
n_s	852.1	1.564210
n_r	706.5	1.567780
n_C	656.3	1.569490
$n_{C'}$	643.8	1.569970
$n_{632.8}$	632.8	1.570410
n_D	589.3	1.572410
n_d	587.6	1.572500
n_e	546.1	1.574870
n_F	486.1	1.579430
$n_{F'}$	480.0	1.580000
n_g	435.8	1.584880
n_h	404.7	1.589410
n_i	365.0	1.597160
$n_{334.1}$	334.1	1.605540
$n_{312.6}$	312.6	1.613260
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.81	0.58
2325	0.88	0.72
1970	0.960	0.903
1530	0.994	0.986
1060	0.998	0.996
700	0.999	0.997
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.996	0.990
436	0.996	0.989
420	0.996	0.990
405	0.996	0.990
400	0.996	0.990
390	0.995	0.988
380	0.993	0.983
370	0.991	0.977
365	0.987	0.969
350	0.971	0.930
334	0.924	0.820
320	0.799	0.570
310	0.609	0.290
300	0.340	0.070
290	0.100	
280	0.010	
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2712
$P_{C,s}$	0.5301
$P_{d,C}$	0.3029
$P_{e,d}$	0.2384
$P_{g,F}$	0.5472
$P_{i,h}$	0.7788
$P'_{s,t}$	0.2687
$P'_{C,s}$	0.573
$P'_{d,C'}$	0.2525
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4855
$P'_{i,h}$	0.7717

Constants of Dispersion Formula	
B_1	1.12365662
B_2	0.309276848
B_3	0.881511957
C_1	0.00644742752
C_2	0.0222284402
C_3	107.297751

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0167
$\Delta P_{C,s}$	-0.0069
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0002
$\Delta P_{i,g}$	-0.0075

Constants of Dispersion dn/dT	
D_0	$1.86 \cdot 10^{-7}$
D_1	$1.29 \cdot 10^{-8}$
D_2	$-1.87 \cdot 10^{-11}$
E_0	$5.25 \cdot 10^{-7}$
E_1	$5.46 \cdot 10^{-10}$
λ_{TK} [μm]	0.182

Color Code	
λ_{80}/λ_5	33/29
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.6
T_g [$^\circ\text{C}$]	592
$T_{10}^{13.0}$ [$^\circ\text{C}$]	592
$T_{10}^{7.6}$ [$^\circ\text{C}$]	746
c_p [J/(g·K)]	0.687
λ [W/(m·K)]	0.795
ρ [g/cm ³]	3.19
E [10^3 N/mm ²]	73
μ	0.252
K [10^{-6} mm ² /N]	2.62
$HK_{0.1/20}$	530
HG	2
B	1.00
CR	2
FR	1
SR	3.3
AR	1.2
PR	2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.7	2.4	3.0	-0.4	0.2	0.8
+20/ +40	1.8	2.5	3.2	0.4	1.2	1.8
+60/ +80	1.9	2.7	3.5	0.9	1.7	2.4

N-BAK2 540597.286

$n_d = 1.53996$
 $n_e = 1.54212$

$v_d = 59.71$
 $v_e = 59.44$

$n_F - n_C = 0.009043$
 $n_{F'} - n_{C'} = 0.009120$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.513870
$n_{1970.1}$	1970.1	1.518710
$n_{1529.6}$	1529.6	1.523850
$n_{1060.0}$	1060.0	1.529190
n_t	1014.0	1.529800
n_s	852.1	1.532340
n_r	706.5	1.535640
n_C	656.3	1.537210
$n_{C'}$	643.8	1.537650
$n_{632.8}$	632.8	1.538060
n_D	589.3	1.539880
n_d	587.6	1.539960
n_e	546.1	1.542120
n_F	486.1	1.546250
$n_{F'}$	480.0	1.546770
n_g	435.8	1.551170
n_h	404.7	1.555250
n_i	365.0	1.562210
$n_{334.1}$	334.1	1.569710
$n_{312.6}$	312.6	1.576600
$n_{296.7}$	296.7	1.582870
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.76	0.50
2325	0.83	0.63
1970	0.937	0.850
1530	0.994	0.984
1060	0.999	0.997
700	0.998	0.996
660	0.998	0.995
620	0.998	0.994
580	0.998	0.995
546	0.998	0.995
500	0.998	0.994
460	0.997	0.992
436	0.997	0.992
420	0.997	0.993
405	0.997	0.993
400	0.997	0.993
390	0.997	0.992
380	0.996	0.990
370	0.996	0.989
365	0.994	0.986
350	0.988	0.971
334	0.963	0.910
320	0.867	0.700
310	0.693	0.400
300	0.400	0.100
290	0.160	
280	0.040	
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.281
$P_{C,s}$	0.5382
$P_{d,C}$	0.3042
$P_{e,d}$	0.2385
$P_{g,F}$	0.5437
$P_{i,h}$	0.7695
$P'_{s,t}$	0.2787
$P'_{C,s}$	0.5817
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4826
$P'_{i,h}$	0.763

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0089
$\Delta P_{C,s}$	-0.0039
$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	0.0004
$\Delta P_{i,g}$	-0.0027

Constants of Dispersion Formula	
B_1	1.01662154
B_2	0.319903051
B_3	0.937232995
C_1	0.00592383763
C_2	0.0203828415
C_3	113.118417

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.0
T_g [$^\circ\text{C}$]	554
$T_{10}^{13.0}$ [$^\circ\text{C}$]	550
$T_{10}^{7.6}$ [$^\circ\text{C}$]	727
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.920
ρ [g/cm ³]	2.86
E [10^3 N/mm ²]	71
μ	0.233
K [10^{-6} mm ² /N]	2.60
$HK_{0.1/20}$	530
HG	2
B	1.00
CR	2
FR	0
SR	1
AR	1
PR	2.3

Constants of Dispersion dn/dT	
D_0	$-1.45 \cdot 10^{-6}$
D_1	$1.10 \cdot 10^{-8}$
D_2	$4.89 \cdot 10^{-12}$
E_0	$5.16 \cdot 10^{-7}$
E_1	$3.05 \cdot 10^{-10}$
λ_{TK} [μm]	0.164

Color Code	
λ_{80}/λ_5	32/28
(* = λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.1	1.8	2.3	-0.9	-0.3	0.2
+20/ +40	1.0	1.7	2.3	-0.3	0.3	0.9
+60/ +80	1.1	1.8	2.4	0.1	0.8	1.4

N-BAK4 569560.305

$n_d = 1.56883$
 $n_e = 1.57125$

$v_d = 55.98$
 $v_e = 55.70$

$n_F - n_C = 0.010162$
 $n_{F'} - n_{C'} = 0.010255$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.540440
$n_{1970.1}$	1970.1	1.545610
$n_{1529.6}$	1529.6	1.551110
$n_{1060.0}$	1060.0	1.556880
n_t	1014.0	1.557550
n_s	852.1	1.560340
n_r	706.5	1.564000
n_C	656.3	1.565750
$n_{C'}$	643.8	1.566240
$n_{632.8}$	632.8	1.566700
n_D	589.3	1.568740
n_d	587.6	1.568830
n_e	546.1	1.571250
n_F	486.1	1.575910
$n_{F'}$	480.0	1.576490
n_g	435.8	1.581490
n_h	404.7	1.586140
n_i	365.0	1.594150
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.28834642
B_2	0.132817724
B_3	0.945395373
C_1	0.00779980626
C_2	0.0315631177
C_3	105.965875

Constants of Dispersion dn/dT	
D_0	$3.06 \cdot 10^{-6}$
D_1	$1.44 \cdot 10^{-8}$
D_2	$-2.23 \cdot 10^{-11}$
E_0	$5.46 \cdot 10^{-7}$
E_1	$6.05 \cdot 10^{-10}$
λ_{TK} [μm]	0.189

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.0	3.7	4.4	0.9	1.5	2.2
+20/ +40	3.1	3.9	4.7	1.8	2.6	3.3
+60/ +80	3.3	4.2	5.0	2.2	3.1	3.9

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.78	0.54
2325	0.87	0.71
1970	0.959	0.900
1530	0.993	0.982
1060	0.998	0.995
700	0.999	0.997
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.996
500	0.998	0.994
460	0.996	0.989
436	0.995	0.988
420	0.995	0.987
405	0.993	0.983
400	0.992	0.980
390	0.987	0.967
380	0.976	0.940
370	0.954	0.890
365	0.933	0.840
350	0.787	0.550
334	0.345	0.070
320	0.012	
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	36/33
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2749
$P_{C,s}$	0.5321
$P_{d,C}$	0.3029
$P_{e,d}$	0.2383
$P_{g,F}$	0.5487
$P_{i,h}$	0.7879
$P'_{s,t}$	0.2724
$P'_{C,s}$	0.575
$P'_{d,C'}$	0.2524
$P'_{e,d}$	0.2361
$P'_{g,F'}$	0.4869
$P'_{i,h}$	0.7807

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0034
$\Delta P_{C,s}$	-0.0013
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.001
$\Delta P_{i,g}$	-0.0087

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	7.0
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.9
T_g [$^{\circ}C$]	581
$T_{10} 13.0$ [$^{\circ}C$]	569
$T_{10} 7.6$ [$^{\circ}C$]	725
c_p [J/(g·K)]	0.680
λ [W/(m·K)]	0.880
ρ [g/cm ³]	3.05
E [10^3 N/mm ²]	77
μ	0.240
K [10^{-6} mm ² /N]	2.90
$HK_{0.1/20}$	550
HG	2
B	0.00
CR	1
FR	0
SR	1.2
AR	1
PR	1

N-SK2
607567.355

$n_d = 1.60738$	$v_d = 56.65$	$n_F - n_C = 0.010722$
$n_e = 1.60994$	$v_e = 56.37$	$n_{F'} - n_{C'} = 0.010821$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.578810
$n_{1970.1}$	1970.1	1.583780
$n_{1529.6}$	1529.6	1.589140
$n_{1060.0}$	1060.0	1.594900
n_t	1014.0	1.595580
n_s	852.1	1.598470
n_r	706.5	1.602300
n_C	656.3	1.604140
$n_{C'}$	643.8	1.604650
$n_{632.8}$	632.8	1.605130
n_D	589.3	1.607290
n_d	587.6	1.607380
n_e	546.1	1.609940
n_F	486.1	1.614860
$n_{F'}$	480.0	1.615470
n_g	435.8	1.620730
n_h	404.7	1.625620
n_i	365.0	1.633980
$n_{334.1}$	334.1	1.643040
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.81	0.60
2325	0.90	0.76
1970	0.971	0.930
1530	0.995	0.988
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.998	0.994
580	0.998	0.995
546	0.998	0.995
500	0.996	0.990
460	0.993	0.983
436	0.993	0.982
420	0.994	0.984
405	0.994	0.985
400	0.994	0.984
390	0.992	0.979
380	0.988	0.970
370	0.976	0.940
365	0.967	0.920
350	0.905	0.780
334	0.752	0.490
320	0.504	0.180
310	0.276	0.040
300	0.100	
290	0.020	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.269
$P_{C,s}$	0.5285
$P_{d,C}$	0.3027
$P_{e,d}$	0.2384
$P_{g,F}$	0.5477
$P_{i,h}$	0.7802
$P'_{s,t}$	0.2666
$P'_{C,s}$	0.5713
$P'_{d,C'}$	0.2523
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.486
$P'_{i,h}$	0.773

Constants of Dispersion Formula	
B_1	1.28189012
B_2	0.257738258
B_3	0.96818604
C_1	0.0072719164
C_2	0.0242823527
C_3	110.377773

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0162
$\Delta P_{C,s}$	-0.0064
$\Delta P_{F,e}$	0.0003
$\Delta P_{g,F}$	-0.0008
$\Delta P_{i,g}$	-0.013

Constants of Dispersion dn/dT	
D_0	$3.80 \cdot 10^{-6}$
D_1	$1.41 \cdot 10^{-8}$
D_2	$2.28 \cdot 10^{-11}$
E_0	$6.44 \cdot 10^{-7}$
E_1	$8.03 \cdot 10^{-11}$
λ_{TK} [μm]	0.108

Color Code	
λ_{80}/λ_5	35/30
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.1
T_g [$^\circ\text{C}$]	659
$T_{10}^{13.0}$ [$^\circ\text{C}$]	659
$T_{10}^{7.6}$ [$^\circ\text{C}$]	823
c_p [J/(g·K)]	0.595
λ [W/(m·K)]	0.776
ρ [g/cm ³]	3.55
E [10^3 N/mm ²]	78
μ	0.263
K [10^{-6} mm ² /N]	2.31
$HK_{0.1/20}$	550
HG	2
B	0.00
CR	2
FR	0
SR	2.2
AR	1
PR	2.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.7	4.6	5.3	1.5	2.4	3.1
+20/ +40	3.6	4.5	5.3	2.3	3.1	3.9
+60/ +80	4.0	4.9	5.7	2.9	3.8	4.5

N-SK4
613586.354

$n_d = 1.61272$
 $n_e = 1.61521$

$v_d = 58.63$
 $v_e = 58.37$

$n_F - n_C = 0.010450$
 $n_{F'} - n_{C'} = 0.010541$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.582820
$n_{1970.1}$	1970.1	1.588350
$n_{1529.6}$	1529.6	1.594220
$n_{1060.0}$	1060.0	1.600320
n_t	1014.0	1.601020
n_s	852.1	1.603930
n_r	706.5	1.607740
n_C	656.3	1.609540
$n_{C'}$	643.8	1.610050
$n_{632.8}$	632.8	1.610520
n_D	589.3	1.612620
n_d	587.6	1.612720
n_e	546.1	1.615210
n_F	486.1	1.619990
$n_{F'}$	480.0	1.620590
n_g	435.8	1.625680
n_h	404.7	1.630420
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.69	0.39
2325	0.83	0.62
1970	0.959	0.900
1530	0.991	0.977
1060	0.997	0.993
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.994	0.985
436	0.993	0.983
420	0.993	0.983
405	0.992	0.979
400	0.990	0.975
390	0.984	0.960
380	0.971	0.930
370	0.946	0.870
365	0.928	0.830
350	0.821	0.610
334	0.525	0.200
320	0.102	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2792
$P_{C,s}$	0.5366
$P_{d,C}$	0.3039
$P_{e,d}$	0.2384
$P_{g,F}$	0.5448
$P_{i,h}$	
$P'_{s,t}$	0.2768
$P'_{C,s}$	0.5799
$P'_{d,C'}$	0.2533
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4835
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.32993741
B_2	0.228542996
B_3	0.988465211
C_1	0.00716874107
C_2	0.0246455892
C_3	100.886364

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0073
$\Delta P_{C,s}$	-0.003
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$7.96 \cdot 10^{-7}$
D_1	$1.30 \cdot 10^{-8}$
D_2	$-1.31 \cdot 10^{-11}$
E_0	$4.36 \cdot 10^{-7}$
E_1	$6.01 \cdot 10^{-10}$
λ_{TK} [μm]	0.179

Color Code	
λ_{80}/λ_5	36/32
(* = λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	6.5
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	7.4
T_g [$^\circ C$]	658
$T_{10} 13.0$ [$^\circ C$]	646
$T_{10} 7.6$ [$^\circ C$]	769
c_p [J/(g·K)]	0.570
λ [W/(m·K)]	0.830
ρ [g/cm ³]	3.54
E [10^3 N/mm ²]	84
μ	0.261
K [10^{-6} mm ² /N]	1.92
$HK_{0.1/20}$	580
HG	3
B	1.00
CR	3
FR	1
SR	51.2
AR	2
PR	2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^\circ C$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.0	2.6	3.1	-0.1	0.4	0.9
+20/ +40	2.1	2.8	3.4	0.7	1.4	2.0
+60/ +80	2.3	3.0	3.7	1.2	1.9	2.6

N-SK5
589613.330

$n_d = 1.58913$	$v_d = 61.27$	$n_F - n_C = 0.009616$
$n_e = 1.59142$	$v_e = 61.02$	$n_F' - n_C' = 0.009692$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.559660
$n_{1970.1}$	1970.1	1.565390
$n_{1529.6}$	1529.6	1.571400
$n_{1060.0}$	1060.0	1.577470
n_t	1014.0	1.578150
n_s	852.1	1.580940
n_r	706.5	1.584510
n_C	656.3	1.586190
$n_{C'}$	643.8	1.586660
$n_{632.8}$	632.8	1.587100
n_D	589.3	1.589040
n_d	587.6	1.589130
n_e	546.1	1.591420
n_F	486.1	1.595810
$n_{F'}$	480.0	1.596350
n_g	435.8	1.601000
n_h	404.7	1.605300
n_i	365.0	1.612600
$n_{334.1}$	334.1	1.620430
$n_{312.6}$	312.6	1.627590
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.68	0.38
2325	0.84	0.64
1970	0.963	0.910
1530	0.992	0.980
1060	0.999	0.997
700	0.998	0.995
660	0.998	0.994
620	0.997	0.993
580	0.998	0.995
546	0.998	0.996
500	0.998	0.994
460	0.996	0.989
436	0.995	0.987
420	0.994	0.986
405	0.993	0.983
400	0.992	0.981
390	0.988	0.971
380	0.984	0.960
370	0.976	0.940
365	0.971	0.930
350	0.920	0.820
334	0.800	0.580
320	0.590	0.270
310	0.400	0.100
300	0.210	0.020
290	0.090	
280	0.030	
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2904
$P_{C,s}$	0.546
$P_{d,C}$	0.3055
$P_{e,d}$	0.2386
$P_{g,F}$	0.54
$P_{i,h}$	0.7591
$P'_{s,t}$	0.2881
$P'_{C,s}$	0.5901
$P'_{d,C'}$	0.2547
$P'_{e,d}$	0.2367
$P'_{g,F'}$	0.4796
$P'_{i,h}$	0.7531

Constants of Dispersion Formula	
B_1	0.991463823
B_2	0.495982121
B_3	0.987393925
C_1	0.00522730467
C_2	0.0172733646
C_3	98.3594579

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0008
$\Delta P_{C,s}$	0.0003
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0045

Constants of Dispersion dn/dT	
D_0	$3.50 \cdot 10^{-6}$
D_1	$1.22 \cdot 10^{-8}$
D_2	$6.38 \cdot 10^{-11}$
E_0	$2.46 \cdot 10^{-7}$
E_1	$-3.34 \cdot 10^{-11}$
λ_{TK} [μm]	0.278

Color Code	
λ_{80}/λ_5	34/29
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.5
T_g [$^\circ\text{C}$]	660
$T_{10}^{13.0}$ [$^\circ\text{C}$]	657
$T_{10}^{7.6}$ [$^\circ\text{C}$]	791
c_p [J/(g·K)]	0.560
λ [W/(m·K)]	0.990
ρ [g/cm ³]	3.30
E [10^3 N/mm ²]	84
μ	0.256
K [10^{-6} mm ² /N]	2.16
$HK_{0.1/20}$	590
HG	3
B	1.00
CR	3
FR	1
SR	4.4
AR	2
PR	1.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.5	4.0	4.6	1.4	1.9	2.4
+20/ +40	3.2	3.7	4.3	1.9	2.3	2.9
+60/ +80	3.6	4.1	4.7	2.6	3.0	3.6

N-SK11
564608.308

$n_d = 1.56384$	$v_d = 60.80$	$n_F - n_C = 0.009274$
$n_e = 1.56605$	$v_e = 60.55$	$n_{F'} - n_{C'} = 0.009349$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.535980
$n_{1970.1}$	1970.1	1.541310
$n_{1529.6}$	1529.6	1.546930
$n_{1060.0}$	1060.0	1.552660
n_t	1014.0	1.553300
n_s	852.1	1.555970
n_r	706.5	1.559390
n_C	656.3	1.561010
$n_{C'}$	643.8	1.561460
$n_{632.8}$	632.8	1.561880
n_D	589.3	1.563760
n_d	587.6	1.563840
n_e	546.1	1.566050
n_F	486.1	1.570280
$n_{F'}$	480.0	1.570810
n_g	435.8	1.575300
n_h	404.7	1.579460
n_i	365.0	1.586530
$n_{334.1}$	334.1	1.594140
$n_{312.6}$	312.6	1.601100
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.78	0.54
2325	0.88	0.73
1970	0.967	0.920
1530	0.994	0.984
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.999	0.997
500	0.998	0.994
460	0.996	0.990
436	0.995	0.988
420	0.994	0.985
405	0.992	0.980
400	0.990	0.975
390	0.988	0.970
380	0.985	0.963
370	0.980	0.950
365	0.976	0.940
350	0.950	0.880
334	0.872	0.710
320	0.700	0.410
310	0.480	0.160
300	0.210	0.020
290	0.060	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2874
$P_{C,s}$	0.5436
$P_{d,C}$	0.3051
$P_{e,d}$	0.2385
$P_{g,F}$	0.5411
$P_{i,h}$	0.7626
$P'_{s,t}$	0.285
$P'_{C,s}$	0.5875
$P'_{d,C'}$	0.2544
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4805
$P'_{i,h}$	0.7564

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0024
$\Delta P_{C,s}$	-0.0011
$\Delta P_{F,e}$	0
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	-0.0037

Constants of Dispersion Formula	
B_1	1.17963631
B_2	0.229817295
B_3	0.935789652
C_1	0.00680282081
C_2	0.0219737205
C_3	101.513232

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.6
T_g [$^\circ\text{C}$]	610
$T_{10}^{13.0}$ [$^\circ\text{C}$]	601
$T_{10}^{7.6}$ [$^\circ\text{C}$]	760
c_p [(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.08
E [10^3 N/mm ²]	79
μ	0.239
K [10^{-6} mm ² /N]	2.45
$HK_{0.1/20}$	570
HG	2
B	1.00
CR	2
FR	0
SR	2
AR	1
PR	2.3

Constants of Dispersion dn/dT	
D_0	$2.14 \cdot 10^{-6}$
D_1	$1.27 \cdot 10^{-8}$
D_2	$-7.21 \cdot 10^{-11}$
E_0	$3.51 \cdot 10^{-7}$
E_1	$5.41 \cdot 10^{-10}$
λ_{TK} [μm]	0.238

Color Code	
λ_{80}/λ_5	34/29
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.4	2.8	3.4	0.3	0.7	1.2
+20/ +40	2.6	3.2	3.8	1.2	1.8	2.4
+60/ +80	2.5	3.2	3.9	1.5	2.1	2.8

N-SK14 603606.344

$n_d = 1.60311$
 $n_e = 1.60548$

$v_d = 60.60$
 $v_e = 60.34$

$n_F - n_C = 0.009953$
 $n_{F'} - n_{C'} = 0.010034$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.573360
$n_{1970.1}$	1970.1	1.579030
$n_{1529.6}$	1529.6	1.585020
$n_{1060.0}$	1060.0	1.591130
n_t	1014.0	1.591820
n_s	852.1	1.594670
n_r	706.5	1.598340
n_C	656.3	1.600080
$n_{C'}$	643.8	1.600560
$n_{632.8}$	632.8	1.601010
n_D	589.3	1.603020
n_d	587.6	1.603110
n_e	546.1	1.605480
n_F	486.1	1.610030
$n_{F'}$	480.0	1.610590
n_g	435.8	1.615420
n_h	404.7	1.619880
n_i	365.0	1.627480
$n_{334.1}$	334.1	1.635640
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.68	0.38
2325	0.83	0.63
1970	0.959	0.900
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.993
460	0.995	0.988
436	0.994	0.985
420	0.993	0.983
405	0.991	0.978
400	0.990	0.975
390	0.988	0.970
380	0.981	0.952
370	0.971	0.930
365	0.963	0.910
350	0.910	0.790
334	0.770	0.520
320	0.546	0.220
310	0.345	0.070
300	0.160	
290	0.040	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2864
$P_{C,s}$	0.5427
$P_{d,C}$	0.3049
$P_{e,d}$	0.2385
$P_{g,F}$	0.5415
$P_{i,h}$	0.7631
$P'_{s,t}$	0.2841
$P'_{C,s}$	0.5865
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4808
$P'_{i,h}$	0.7569

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0033
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	0
$\Delta P_{g,F}$	-0.0003
$\Delta P_{i,g}$	-0.0044

Constants of Dispersion Formula	
B_1	0.936155374
B_2	0.594052018
B_3	1.04374583
C_1	0.00461716525
C_2	0.016885927
C_3	103.736265

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.3
T_g [$^\circ\text{C}$]	649
$T_{10}^{13.0}$ [$^\circ\text{C}$]	638
$T_{10}^{7.6}$ [$^\circ\text{C}$]	773
c_p [J/(g·K)]	0.636
λ [W/(m·K)]	0.851
ρ [g/cm ³]	3.44
E [10^3 N/mm ²]	86
μ	0.261
K [10^{-6} mm ² /N]	2.00
$HK_{0.1/20}$	600
HG	3
B	1.00
CR	4
FR	2
SR	51.3
AR	2
PR	2.3

Constants of Dispersion dn/dT	
D_0	$1.58 \cdot 10^{-6}$
D_1	$1.22 \cdot 10^{-8}$
D_2	$-8.04 \cdot 10^{-12}$
E_0	$4.46 \cdot 10^{-7}$
E_1	$5.22 \cdot 10^{-10}$
λ_{TK} [μm]	0.150

Color Code	
λ_{80}/λ_5	35/29
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.5	3.0	3.5	0.3	0.8	1.3
+20/ +40	2.4	3.1	3.7	1.1	1.7	2.3
+60/ +80	2.6	3.3	4.0	1.5	2.2	2.8

N-SK16 620603.358

$n_d = 1.62041$
 $n_e = 1.62286$

$v_d = 60.32$
 $v_e = 60.08$

$n_F - n_C = 0.010285$
 $n_{F'} - n_{C'} = 0.010368$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.589190
$n_{1970.1}$	1970.1	1.595230
$n_{1529.6}$	1529.6	1.601570
$n_{1060.0}$	1060.0	1.607990
n_t	1014.0	1.608710
n_s	852.1	1.611670
n_r	706.5	1.615480
n_C	656.3	1.617270
$n_{C'}$	643.8	1.617770
$n_{632.8}$	632.8	1.618240
n_D	589.3	1.620320
n_d	587.6	1.620410
n_e	546.1	1.622860
n_F	486.1	1.627560
$n_{F'}$	480.0	1.628140
n_g	435.8	1.633120
n_h	404.7	1.637730
n_i	365.0	1.645590
$n_{334.1}$	334.1	1.654030
$n_{312.6}$	312.6	1.661780
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.34317774
B_2	0.241144399
B_3	0.994317969
C_1	0.00704687339
C_2	0.0229005
C_3	92.7508526

Constants of Dispersion dn/dT	
D_0	$-2.37 \cdot 10^{-8}$
D_1	$1.32 \cdot 10^{-8}$
D_2	$-1.29 \cdot 10^{-11}$
E_0	$4.09 \cdot 10^{-7}$
E_1	$5.17 \cdot 10^{-10}$
λ_{TK} [μm]	0.170

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.6	2.2	2.6	-0.5	-0.1	0.4
+20/ +40	1.7	2.3	2.9	0.3	0.9	1.4
+60/ +80	1.9	2.6	3.2	0.8	1.5	2.1

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.58	0.26
2325	0.78	0.54
1970	0.950	0.880
1530	0.989	0.973
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.998	0.994
500	0.996	0.991
460	0.994	0.984
436	0.992	0.981
420	0.992	0.979
405	0.990	0.974
400	0.988	0.970
390	0.982	0.956
380	0.971	0.930
370	0.954	0.890
365	0.941	0.860
350	0.867	0.700
334	0.693	0.400
320	0.414	0.110
310	0.209	0.020
300	0.060	
290	0.010	
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	36/30
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2885
$P_{C,s}$	0.5443
$P_{d,C}$	0.3051
$P_{e,d}$	0.2385
$P_{g,F}$	0.5412
$P_{i,h}$	0.7633
$P'_{s,t}$	0.2861
$P'_{C,s}$	0.5882
$P'_{d,C'}$	0.2544
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4805
$P'_{i,h}$	0.7572

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0016
$\Delta P_{C,s}$	0.0007
$\Delta P_{F,e}$	-0.0003
$\Delta P_{g,F}$	-0.0011
$\Delta P_{i,g}$	-0.0067

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	6.3
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.3
T_g [$^{\circ}C$]	636
$T_{10}^{13.0}$ [$^{\circ}C$]	633
$T_{10}^{7.6}$ [$^{\circ}C$]	750
c_p [J/(g·K)]	0.578
λ [W/(m·K)]	0.818
ρ [g/cm ³]	3.58
E [10^3 N/mm ²]	89
μ	0.264
K [10^{-6} mm ² /N]	1.90
$HK_{0.1/20}$	600
HG	4
B	1.00
CR	4
FR	4
SR	53.3
AR	3.3
PR	3.2

P-SK57
587596.301

$n_d = 1.58700$	$v_d = 59.60$	$n_F - n_C = 0.009849$
$n_e = 1.58935$	$v_e = 59.36$	$n_{F'} - n_{C'} = 0.009928$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.556880
$n_{1970.1}$	1970.1	1.562710
$n_{1529.6}$	1529.6	1.568850
$n_{1060.0}$	1060.0	1.575070
n_t	1014.0	1.575760
n_s	852.1	1.578620
n_r	706.5	1.582270
n_C	656.3	1.583990
$n_{C'}$	643.8	1.584470
$n_{632.8}$	632.8	1.584920
n_D	589.3	1.586910
n_d	587.6	1.587000
n_e	546.1	1.589350
n_F	486.1	1.593840
$n_{F'}$	480.0	1.594400
n_g	435.8	1.599170
n_h	404.7	1.603590
n_i	365.0	1.611120
$n_{334.1}$	334.1	1.619230
$n_{312.6}$	312.6	1.626690
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.69	0.40
2325	0.83	0.63
1970	0.954	0.890
1530	0.991	0.978
1060	0.999	0.997
700	0.999	0.997
660	0.999	0.997
620	0.999	0.997
580	0.999	0.997
546	0.999	0.997
500	0.998	0.995
460	0.996	0.991
436	0.996	0.989
420	0.995	0.987
405	0.994	0.985
400	0.994	0.984
390	0.992	0.980
380	0.989	0.973
370	0.984	0.960
365	0.980	0.950
350	0.946	0.870
334	0.821	0.610
320	0.480	0.160
310	0.123	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2902
$P_{C,s}$	0.5454
$P_{d,C}$	0.3053
$P_{e,d}$	0.2385
$P_{g,F}$	0.5412
$P_{i,h}$	0.7644
$P'_{s,t}$	0.2878
$P'_{C,s}$	0.5894
$P'_{d,C'}$	0.2545
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4806
$P'_{i,h}$	0.7583

Constants of Dispersion Formula	
B_1	1.31053414
B_2	0.169376189
B_3	1.10987714
C_1	0.00740877235
C_2	0.0254563489
C_3	107.751087

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0079
$\Delta P_{C,s}$	0.0036
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	-0.0115

Constants of Dispersion dn/dT	
D_0	$2.60 \cdot 10^{-6}$
D_1	$9.40 \cdot 10^{-9}$
D_2	$-2.30 \cdot 10^{-11}$
E_0	$4.90 \cdot 10^{-7}$
E_1	$5.96 \cdot 10^{-10}$
λ_{TK} [μm]	0.178

Color Code	
λ_{80}/λ_5	34/31
(*= λ_{70}/λ_5)	

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	7.2
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	8.9
T_g [$^\circ C$]	493
$T_{10} 13.0$ [$^\circ C$]	494
$T_{10} 7.6$ [$^\circ C$]	593
c_p [J/(g·K)]	0.760
λ [W/(m·K)]	1.010
ρ [g/cm ³]	3.01
E [10^3 N/mm ²]	93
μ	0.249
K [10^{-6} mm ² /N]	2.17
$HK_{0.1/20}$	535
HG	3
B	1.00
CR	4
FR	3
SR	52.3
AR	2
PR	3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^\circ C$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.0	3.7	4.2	0.9	1.5	2.0
+20/ +40	2.9	3.6	4.3	1.5	2.2	2.9
+60/ +80	2.9	3.7	4.4	1.8	2.6	3.3

N-KF9
523515.250

$n_d = 1.52346$
 $n_e = 1.52588$

$v_d = 51.54$
 $v_e = 51.26$

$n_F - n_C = 0.010156$
 $n_{F'} - n_{C'} = 0.010258$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.496080
$n_{1970.1}$	1970.1	1.500950
$n_{1529.6}$	1529.6	1.506160
$n_{1060.0}$	1060.0	1.511700
n_t	1014.0	1.512340
n_s	852.1	1.515070
n_r	706.5	1.518670
n_C	656.3	1.520400
$n_{C'}$	643.8	1.520890
$n_{632.8}$	632.8	1.521340
n_D	589.3	1.523370
n_d	587.6	1.523460
n_e	546.1	1.525880
n_F	486.1	1.530560
$n_{F'}$	480.0	1.531140
n_g	435.8	1.536200
n_h	404.7	1.540960
n_i	365.0	1.549250
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.19286778
B_2	0.0893346571
B_3	0.920819805
C_1	0.00839154696
C_2	0.0404010786
C_3	112.572446

Constants of Dispersion dn/dT	
D_0	$-1.66 \cdot 10^{-6}$
D_1	$8.44 \cdot 10^{-9}$
D_2	$-1.01 \cdot 10^{-11}$
E_0	$6.10 \cdot 10^{-7}$
E_1	$6.96 \cdot 10^{-10}$
λ_{TK} [μm]	0.217

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.1	1.9	2.6	-0.9	-0.2	0.5
+20/ +40	0.9	1.8	2.6	-0.4	0.4	1.3
+60/ +80	0.9	1.8	2.8	-0.1	0.8	1.7

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.62	0.30
2325	0.71	0.43
1970	0.887	0.740
1530	0.992	0.981
1060	0.998	0.995
700	0.999	0.997
660	0.998	0.995
620	0.998	0.994
580	0.998	0.996
546	0.998	0.996
500	0.998	0.994
460	0.996	0.990
436	0.995	0.988
420	0.994	0.985
405	0.990	0.975
400	0.986	0.965
390	0.976	0.940
380	0.950	0.880
370	0.901	0.770
365	0.857	0.680
350	0.536	0.210
334	0.026	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	37/34
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2683
$P_{C,s}$	0.5249
$P_{d,C}$	0.3012
$P_{e,d}$	0.238
$P_{g,F}$	0.5558
$P_{i,h}$	0.8161
$P'_{s,t}$	0.2657
$P'_{C,s}$	0.5669
$P'_{d,C'}$	0.2509
$P'_{e,d}$	0.2356
$P'_{g,F'}$	0.493
$P'_{i,h}$	0.808

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0038
$\Delta P_{C,s}$	0.0018
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0014
$\Delta P_{i,g}$	-0.0075

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	9.6
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	11.0
T_g [$^{\circ}C$]	476
$T_{10}^{13.0}$ [$^{\circ}C$]	476
$T_{10}^{7.6}$ [$^{\circ}C$]	640
c_p [J/(g·K)]	0.860
λ [W/(m·K)]	1.040
ρ [g/cm ³]	2.50
E [10^3 N/mm ²]	66
μ	0.225
K [10^{-6} mm ² /N]	2.74
$HK_{0.1/20}$	480
HG	1
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

N-BALF4 580539.311

$n_d = 1.57956$
 $n_e = 1.58212$

$v_d = 53.87$
 $v_e = 53.59$

$n_F - n_C = 0.010759$
 $n_{F'} - n_{C'} = 0.010863$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.550680
$n_{1970.1}$	1970.1	1.555770
$n_{1529.6}$	1529.6	1.561240
$n_{1060.0}$	1060.0	1.567070
n_t	1014.0	1.567760
n_s	852.1	1.570650
n_r	706.5	1.574470
n_C	656.3	1.576310
$n_{C'}$	643.8	1.576830
$n_{632.8}$	632.8	1.577310
n_D	589.3	1.579460
n_d	587.6	1.579560
n_e	546.1	1.582120
n_F	486.1	1.587070
$n_{F'}$	480.0	1.587690
n_g	435.8	1.593010
n_h	404.7	1.597990
n_i	365.0	1.606580
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.31004128
B_2	0.142038259
B_3	0.964929351
C_1	0.0079659645
C_2	0.0330672072
C_3	109.19732

Constants of Dispersion dn/dT	
D_0	$5.33 \cdot 10^{-6}$
D_1	$1.47 \cdot 10^{-8}$
D_2	$-1.58 \cdot 10^{-11}$
E_0	$5.75 \cdot 10^{-7}$
E_1	$6.58 \cdot 10^{-10}$
λ_{TK} [μm]	0.195

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.1	4.9	5.6	2.0	2.7	3.4
+20/ +40	4.2	5.1	6.0	2.9	3.7	4.6
+60/ +80	4.4	5.4	6.4	3.4	4.3	5.3

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.80	0.58
2325	0.89	0.74
1970	0.967	0.920
1530	0.994	0.984
1060	0.997	0.993
700	0.999	0.997
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.995
500	0.997	0.993
460	0.994	0.986
436	0.993	0.983
420	0.992	0.981
405	0.988	0.970
400	0.985	0.964
390	0.976	0.940
380	0.959	0.900
370	0.924	0.820
365	0.891	0.750
350	0.679	0.380
334	0.158	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	37/33
(* = λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2687
$P_{C,s}$	0.5265
$P_{d,C}$	0.3019
$P_{e,d}$	0.2382
$P_{g,F}$	0.552
$P_{i,h}$	0.7986
$P'_{s,t}$	0.2661
$P'_{C,s}$	0.5689
$P'_{d,C'}$	0.2515
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4897
$P'_{i,h}$	0.7909

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0053
$\Delta P_{C,s}$	-0.0019
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0012
$\Delta P_{i,g}$	-0.0114

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	6.5
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.4
T_g [$^{\circ}C$]	578
$T_{10}^{13.0}$ [$^{\circ}C$]	584
$T_{10}^{7.6}$ [$^{\circ}C$]	661
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.850
ρ [g/cm ³]	3.11
E [10^3 N/mm ²]	77
μ	0.245
K [10^{-6} mm ² /N]	3.01
$HK_{0.1/20}$	540
HG	2
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

N-BALF5 547536.261

$n_d = 1.54739$
 $n_e = 1.54982$

$v_d = 53.63$
 $v_e = 53.36$

$n_F - n_C = 0.010207$
 $n_{F'} - n_{C'} = 0.010303$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	
$n_{1970.1}$	1970.1	
$n_{1529.6}$	1529.6	
$n_{1060.0}$	1060.0	1.535290
n_t	1014.0	1.535980
n_s	852.1	1.538850
n_r	706.5	1.542550
n_C	656.3	1.544300
$n_{C'}$	643.8	1.544790
$n_{632.8}$	632.8	1.545250
n_D	589.3	1.547300
n_d	587.6	1.547390
n_e	546.1	1.549820
n_F	486.1	1.554510
$n_{F'}$	480.0	1.555100
n_g	435.8	1.560160
n_h	404.7	1.564910
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.28385965
B_2	0.0719300942
B_3	1.05048927
C_1	0.00825815975
C_2	0.0441920027
C_3	107.097324

Constants of Dispersion dn/dT	
D_0	$1.14 \cdot 10^{-6}$
D_1	$1.29 \cdot 10^{-8}$
D_2	$-1.46 \cdot 10^{-11}$
E_0	$5.02 \cdot 10^{-7}$
E_1	$5.87 \cdot 10^{-10}$
λ_{TK} [μm]	0.219

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.1	2.8	3.5	0.1	0.7	1.3
+20/ +40	2.1	2.9	3.7	0.8	1.6	2.3
+60/ +80	2.3	3.1	3.9	1.3	2.1	2.9

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.62	0.30
2325	0.76	0.50
1970	0.919	0.810
1530	0.989	0.973
1060	0.996	0.991
700	0.998	0.995
660	0.997	0.993
620	0.997	0.993
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.995	0.988
436	0.994	0.984
420	0.991	0.978
405	0.986	0.965
400	0.983	0.957
390	0.967	0.920
380	0.937	0.850
370	0.872	0.710
365	0.815	0.600
350	0.439	0.128
334	0.006	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	37/34
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.281
$P_{C,s}$	0.5345
$P_{d,C}$	0.3025
$P_{e,d}$	0.238
$P_{g,F}$	0.5532
$P_{i,h}$	
$P'_{s,t}$	0.2783
$P'_{C,s}$	0.5771
$P'_{d,C'}$	0.252
$P'_{e,d}$	0.2357
$P'_{g,F'}$	0.4909
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0161
$\Delta P_{C,s}$	0.0066
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	7.3
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	8.4
T_g [$^{\circ}C$]	558
$T_{10}^{13.0}$ [$^{\circ}C$]	559
$T_{10}^{7.6}$ [$^{\circ}C$]	711
c_p [J/(g·K)]	0.810
λ [W/(m·K)]	1.050
ρ [g/cm ³]	2.61
E [10^3 N/mm ²]	81
μ	0.214
K [10^{-6} mm ² /N]	2.76
$HK_{0.1/20}$	600
HG	2
B	1.00
CR	1
FR	0
SR	1
AR	2
PR	1

N-SSK2 622533.353

$n_d = 1.62229$	$v_d = 53.27$	$n_F - n_C = 0.011681$
$n_e = 1.62508$	$v_e = 52.99$	$n_F' - n_C' = 0.011795$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.591490
$n_{1970.1}$	1970.1	1.596850
$n_{1529.6}$	1529.6	1.602600
$n_{1060.0}$	1060.0	1.608800
n_t	1014.0	1.609530
n_s	852.1	1.612640
n_r	706.5	1.616780
n_C	656.3	1.618770
$n_{C'}$	643.8	1.619330
$n_{632.8}$	632.8	1.619850
n_D	589.3	1.622190
n_d	587.6	1.622290
n_e	546.1	1.625080
n_F	486.1	1.630450
$n_{F'}$	480.0	1.631120
n_g	435.8	1.636910
n_h	404.7	1.642320
n_i	365.0	1.651660
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.76	0.50
2325	0.88	0.72
1970	0.971	0.930
1530	0.992	0.981
1060	0.997	0.992
700	0.998	0.996
660	0.998	0.994
620	0.997	0.993
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.994	0.985
436	0.992	0.980
420	0.990	0.975
405	0.985	0.963
400	0.981	0.954
390	0.967	0.920
380	0.941	0.860
370	0.891	0.750
365	0.852	0.670
350	0.574	0.250
334	0.084	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2661
$P_{C,s}$	0.5246
$P_{d,C}$	0.3016
$P_{e,d}$	0.2381
$P_{g,F}$	0.5526
$P_{i,h}$	0.7997
$P'_{s,t}$	0.2636
$P'_{C,s}$	0.5669
$P'_{d,C'}$	0.2513
$P'_{e,d}$	0.2358
$P'_{g,F'}$	0.4902
$P'_{i,h}$	0.792

Constants of Dispersion Formula	
B_1	1.4306027
B_2	0.153150554
B_3	1.01390904
C_1	0.00823982975
C_2	0.0333736841
C_3	106.870822

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0069
$\Delta P_{C,s}$	-0.0025
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0016
$\Delta P_{i,g}$	-0.0146

Constants of Dispersion dn/dT	
D_0	$5.21 \cdot 10^{-6}$
D_1	$1.34 \cdot 10^{-8}$
D_2	$-1.01 \cdot 10^{-11}$
E_0	$5.21 \cdot 10^{-7}$
E_1	$5.87 \cdot 10^{-10}$
λ_{TK} [μm]	0.199

Color Code	
λ_{80}/λ_5	37/33
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.7
T_g [$^\circ\text{C}$]	653
$T_{10}^{13.0}$ [$^\circ\text{C}$]	655
$T_{10}^{7.6}$ [$^\circ\text{C}$]	801
c_p [J/(g·K)]	0.580
λ [W/(m·K)]	0.810
ρ [g/cm ³]	3.53
E [10^3 N/mm ²]	82
μ	0.261
K [10^{-6} mm ² /N]	2.51
$HK_{0.1/20}$	570
HG	3
B	1.00
CR	1
FR	0
SR	1.2
AR	1
PR	1

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	4.2	5.0	5.8	2.1	2.8	3.5
+20/ +40	4.3	5.2	6.1	2.9	3.8	4.6
+60/ +80	4.5	5.5	6.4	3.5	4.4	5.3

N-SSK5
658509.371

$n_d = 1.65844$	$v_d = 50.88$	$n_F - n_C = 0.012940$
$n_e = 1.66152$	$v_e = 50.59$	$n_F' - n_C' = 0.013075$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.625810
$n_{1970.1}$	1970.1	1.631280
$n_{1529.6}$	1529.6	1.637200
$n_{1060.0}$	1060.0	1.643710
n_t	1014.0	1.644500
n_s	852.1	1.647850
n_r	706.5	1.652370
n_C	656.3	1.654550
$n_{C'}$	643.8	1.655170
$n_{632.8}$	632.8	1.655740
n_D	589.3	1.658330
n_d	587.6	1.658440
n_e	546.1	1.661520
n_F	486.1	1.667490
$n_{F'}$	480.0	1.668240
n_g	435.8	1.674710
n_h	404.7	1.680790
n_i	365.0	1.691390
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.73	0.45
2325	0.85	0.66
1970	0.963	0.910
1530	0.992	0.980
1060	0.996	0.990
700	0.997	0.993
660	0.997	0.992
620	0.997	0.992
580	0.997	0.993
546	0.996	0.990
500	0.993	0.982
460	0.987	0.968
436	0.982	0.956
420	0.976	0.940
405	0.963	0.910
400	0.959	0.900
390	0.941	0.860
380	0.896	0.760
370	0.804	0.580
365	0.727	0.450
350	0.336	0.060
334	0.017	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2592
$P_{C,s}$	0.5181
$P_{d,C}$	0.3003
$P_{e,d}$	0.238
$P_{g,F}$	0.5575
$P_{i,h}$	0.8192
$P'_{s,t}$	0.2566
$P'_{C,s}$	0.5598
$P'_{d,C'}$	0.2502
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4944
$P'_{i,h}$	0.8108

Constants of Dispersion Formula	
B_1	1.59222659
B_2	0.103520774
B_3	1.05174016
C_1	0.00920284626
C_2	0.0423530072
C_3	106.927374

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.009
$\Delta P_{C,s}$	-0.0034
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0081

Constants of Dispersion dn/dT	
D_0	$7.29 \cdot 10^{-7}$
D_1	$1.17 \cdot 10^{-8}$
D_2	$-1.50 \cdot 10^{-11}$
E_0	$6.08 \cdot 10^{-7}$
E_1	$7.66 \cdot 10^{-10}$
λ_{TK} [μm]	0.189

Color Code	
λ_{80}/λ_5	38/34
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.0
T_g [$^\circ\text{C}$]	645
$T_{10}^{13.0}$ [$^\circ\text{C}$]	637
$T_{10}^{7.6}$ [$^\circ\text{C}$]	751
c_p [J/(g·K)]	0.574
λ [W/(m·K)]	
ρ [g/cm ³]	3.71
E [10^3 N/mm ²]	88
μ	0.278
K [10^{-6} mm ² /N]	1.90
$HK_{0.1/20}$	590
HG	5
B	1.00
CR	2
FR	3
SR	52.2
AR	2.2
PR	3.2

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	2.2	3.0	3.9	0.0	0.8	1.6
+20/ +40	2.2	3.2	4.2	0.8	1.8	2.7
+60/ +80	2.4	3.5	4.5	1.2	2.3	3.4

N-SSK8
618498.327

$n_d = 1.61773$	$v_d = 49.83$	$n_F - n_C = 0.012397$
$n_e = 1.62068$	$v_e = 49.54$	$n_F' - n_C' = 0.012529$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.585940
$n_{1970.1}$	1970.1	1.591370
$n_{1529.6}$	1529.6	1.597230
$n_{1060.0}$	1060.0	1.603600
n_t	1014.0	1.604360
n_s	852.1	1.607590
n_r	706.5	1.611920
n_C	656.3	1.614010
$n_{C'}$	643.8	1.614600
$n_{632.8}$	632.8	1.615150
n_D	589.3	1.617620
n_d	587.6	1.617730
n_e	546.1	1.620680
n_F	486.1	1.626410
$n_{F'}$	480.0	1.627130
n_g	435.8	1.633350
n_h	404.7	1.639230
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.73	0.46
2325	0.85	0.66
1970	0.959	0.900
1530	0.992	0.980
1060	0.997	0.993
700	0.998	0.994
660	0.996	0.991
620	0.996	0.990
580	0.997	0.992
546	0.997	0.992
500	0.994	0.984
460	0.987	0.969
436	0.982	0.955
420	0.975	0.938
405	0.959	0.900
400	0.950	0.880
390	0.919	0.810
380	0.847	0.660
370	0.727	0.450
365	0.626	0.310
350	0.194	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2606
$P_{C,s}$	0.5179
$P_{d,C}$	0.2999
$P_{e,d}$	0.2378
$P_{g,F}$	0.5602
$P_{i,h}$	
$P'_{s,t}$	0.2579
$P'_{C,s}$	0.5594
$P'_{d,C'}$	0.2498
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.4967
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.44857867
B_2	0.117965926
B_3	1.06937528
C_1	0.00869310149
C_2	0.0421566593
C_3	111.300666

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0028
$\Delta P_{C,s}$	-0.0012
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0002
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$5.34 \cdot 10^{-7}$
D_1	$1.27 \cdot 10^{-8}$
D_2	$-1.75 \cdot 10^{-11}$
E_0	$5.40 \cdot 10^{-7}$
E_1	$7.05 \cdot 10^{-10}$
λ_{TK} [μm]	0.224

Color Code	
λ_{80}/λ_5	39/35
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.2
T_g [$^\circ\text{C}$]	616
$T_{10}^{13.0}$ [$^\circ\text{C}$]	604
$T_{10}^{7.6}$ [$^\circ\text{C}$]	742
c_p [J/(g·K)]	0.640
λ [W/(m·K)]	0.840
ρ [g/cm ³]	3.27
E [10^3 N/mm ²]	84
μ	0.251
K [10^{-6} mm ² /N]	2.36
$HK_{0.1/20}$	570
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1.3
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.9	2.7	3.5	-0.2	0.5	1.3
+20/ +40	2.0	2.9	3.9	0.6	1.5	2.4
+60/ +80	2.2	3.2	4.2	1.1	2.1	3.1

N-LAK7 652585.384

$n_d = 1.65160$
 $n_e = 1.65425$

$v_d = 58.52$
 $v_e = 58.26$

$n_F - n_C = 0.011135$
 $n_{F'} - n_{C'} = 0.011229$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.618750
$n_{1970.1}$	1970.1	1.624990
$n_{1529.6}$	1529.6	1.631560
$n_{1060.0}$	1060.0	1.638280
n_t	1014.0	1.639040
n_s	852.1	1.642200
n_r	706.5	1.646280
n_C	656.3	1.648210
$n_{C'}$	643.8	1.648750
$n_{632.8}$	632.8	1.649250
n_D	589.3	1.651500
n_d	587.6	1.651600
n_e	546.1	1.654250
n_F	486.1	1.659340
$n_{F'}$	480.0	1.659980
n_g	435.8	1.665390
n_h	404.7	1.670420
n_i	365.0	1.678970
$n_{334.1}$	334.1	1.688200
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.55	0.22
2325	0.76	0.51
1970	0.959	0.900
1530	0.992	0.979
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.995
620	0.998	0.994
580	0.998	0.995
546	0.998	0.996
500	0.997	0.993
460	0.994	0.985
436	0.991	0.977
420	0.988	0.970
405	0.981	0.952
400	0.977	0.943
390	0.965	0.915
380	0.946	0.870
370	0.910	0.790
365	0.882	0.730
350	0.739	0.470
334	0.509	0.185
320	0.276	0.040
310	0.137	0.010
300	0.040	
290	0.010	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2835
$P_{C,s}$	0.54
$P_{d,C}$	0.3044
$P_{e,d}$	0.2385
$P_{g,F}$	0.5433
$P_{i,h}$	0.7687
$P'_{s,t}$	0.2812
$P'_{C,s}$	0.5836
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4823
$P'_{i,h}$	0.7622

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.001
$\Delta P_{C,s}$	0.0007
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0021
$\Delta P_{i,g}$	-0.014

Constants of Dispersion Formula	
B_1	1.23679889
B_2	0.445051837
B_3	1.01745888
C_1	0.00610105538
C_2	0.0201388334
C_3	90.638038

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.2
T_g [$^\circ\text{C}$]	618
$T_{10}^{13.0}$ [$^\circ\text{C}$]	626
$T_{10}^{7.6}$ [$^\circ\text{C}$]	716
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.84
E [10^3 N/mm ²]	90
μ	0.277
K [10^{-6} mm ² /N]	1.65
$HK_{0.1/20}$	600
HG	5
B	0.00
CR	3
FR	2
SR	53.3
AR	3.3
PR	4.3

Constants of Dispersion dn/dT	
D_0	$-3.40 \cdot 10^{-6}$
D_1	$1.17 \cdot 10^{-8}$
D_2	$2.38 \cdot 10^{-11}$
E_0	$4.96 \cdot 10^{-7}$
E_1	$4.44 \cdot 10^{-10}$
λ_{TK} [μm]	0.107

Color Code	
λ_{80}/λ_5	37/30
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	0.2	0.8	1.3	-2.0	-1.5	-1.0
+20/ +40	0.0	0.7	1.3	-1.4	-0.7	-0.2
+60/ +80	0.3	1.0	1.7	-0.8	-0.1	0.5

N-LAK8 713538.375

$n_d = 1.71300$
 $n_e = 1.71616$

$v_d = 53.83$
 $v_e = 53.61$

$n_F - n_C = 0.013245$
 $n_{F'} - n_{C'} = 0.013359$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.672940
$n_{1970.1}$	1970.1	1.680750
$n_{1529.6}$	1529.6	1.688900
$n_{1060.0}$	1060.0	1.697100
n_t	1014.0	1.698020
n_s	852.1	1.701810
n_r	706.5	1.706680
n_C	656.3	1.708970
$n_{C'}$	643.8	1.709620
$n_{632.8}$	632.8	1.710220
n_D	589.3	1.712890
n_d	587.6	1.713000
n_e	546.1	1.716160
n_F	486.1	1.722220
$n_{F'}$	480.0	1.722970
n_g	435.8	1.729440
n_h	404.7	1.735450
n_i	365.0	1.745730
$n_{334.1}$	334.1	1.756870
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.40	0.10
2325	0.71	0.42
1970	0.950	0.880
1530	0.992	0.979
1060	0.998	0.994
700	0.998	0.996
660	0.998	0.995
620	0.998	0.994
580	0.998	0.994
546	0.998	0.995
500	0.998	0.994
460	0.995	0.987
436	0.992	0.979
420	0.988	0.970
405	0.981	0.952
400	0.977	0.943
390	0.965	0.915
380	0.946	0.870
370	0.905	0.780
365	0.877	0.720
350	0.739	0.470
334	0.509	0.185
320	0.276	0.040
310	0.137	0.010
300	0.040	
290	0.010	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2861
$P_{C,s}$	0.5408
$P_{d,C}$	0.3042
$P_{e,d}$	0.2383
$P_{g,F}$	0.545
$P_{i,h}$	0.7764
$P'_{s,t}$	0.2836
$P'_{C,s}$	0.5843
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4838
$P'_{i,h}$	0.7698

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0266
$\Delta P_{C,s}$	0.0124
$\Delta P_{F,e}$	-0.0026
$\Delta P_{g,F}$	-0.0083
$\Delta P_{i,g}$	-0.0428

Constants of Dispersion Formula	
B_1	1.33183167
B_2	0.546623206
B_3	1.19084015
C_1	0.00620023871
C_2	0.0216465439
C_3	82.5827736

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.7
T_g [$^\circ\text{C}$]	643
$T_{10}^{13.0}$ [$^\circ\text{C}$]	635
$T_{10}^{7.6}$ [$^\circ\text{C}$]	717
c_p [J/(g·K)]	0.620
λ [W/(m·K)]	0.840

Constants of Dispersion dn/dT	
D_0	$4.10 \cdot 10^{-6}$
D_1	$1.25 \cdot 10^{-8}$
D_2	$-1.60 \cdot 10^{-11}$
E_0	$4.30 \cdot 10^{-7}$
E_1	$6.29 \cdot 10^{-10}$
λ_{TK} [μm]	0.213

Color Code	
λ_{80}/λ_5	37/30
(* = λ_{70}/λ_5)	

Remarks	

ρ [g/cm^3]	3.75
E [$10^3 \text{ N}/\text{mm}^2$]	115
μ	0.289
K [$10^{-6} \text{ mm}^2/\text{N}$]	1.81
$HK_{0.1/20}$	740
HG	2
B	0.00
CR	3
FR	2
SR	52.3
AR	1
PR	3.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.0	4.7	5.4	1.7	2.4	3.0
+20/ +40	4.1	5.0	5.8	2.6	3.5	4.3
+60/ +80	4.3	5.2	6.2	3.1	4.1	5.0

N-LAK9 691547.351

$n_d = 1.69100$
 $n_e = 1.69401$

$v_d = 54.71$
 $v_e = 54.48$

$n_F - n_C = 0.012631$
 $n_{F'} - n_{C'} = 0.012738$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.652940
$n_{1970.1}$	1970.1	1.660320
$n_{1529.6}$	1529.6	1.668040
$n_{1060.0}$	1060.0	1.675840
n_t	1014.0	1.676720
n_s	852.1	1.680330
n_r	706.5	1.684970
n_C	656.3	1.687160
$n_{C'}$	643.8	1.687770
$n_{632.8}$	632.8	1.688340
n_D	589.3	1.690890
n_d	587.6	1.691000
n_e	546.1	1.694010
n_F	486.1	1.699790
$n_{F'}$	480.0	1.700510
n_g	435.8	1.706670
n_h	404.7	1.712390
n_i	365.0	1.722190
$n_{334.1}$	334.1	1.732810
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.49	0.17
2325	0.75	0.49
1970	0.959	0.900
1530	0.992	0.980
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.997	0.992
460	0.994	0.985
436	0.991	0.977
420	0.988	0.971
405	0.983	0.958
400	0.980	0.950
390	0.971	0.930
380	0.954	0.890
370	0.928	0.830
365	0.906	0.782
350	0.787	0.550
334	0.556	0.230
320	0.276	0.040
310	0.123	
300	0.040	
290	0.010	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2859
$P_{C,s}$	0.5409
$P_{d,C}$	0.3043
$P_{e,d}$	0.2384
$P_{g,F}$	0.5447
$P_{i,h}$	0.7756
$P'_{s,t}$	0.2834
$P'_{C,s}$	0.5844
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4835
$P'_{i,h}$	0.769

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0223
$\Delta P_{C,s}$	0.0105
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0071
$\Delta P_{i,g}$	-0.0367

Constants of Dispersion Formula	
B_1	1.46231905
B_2	0.344399589
B_3	1.15508372
C_1	0.00724270156
C_2	0.0243353131
C_3	85.4686868

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.5
T_g [$^\circ\text{C}$]	656
$T_{10}^{13.0}$ [$^\circ\text{C}$]	645
$T_{10}^{7.6}$ [$^\circ\text{C}$]	722
c_p [J/(g·K)]	0.649
λ [W/(m·K)]	0.908
ρ [g/cm ³]	3.51
E [10^3 N/mm ²]	110
μ	0.285
K [10^{-6} mm ² /N]	1.83
$HK_{0.1/20}$	700
HG	3
B	0.00
CR	3
FR	3
SR	52
AR	1.2
PR	4.3

Constants of Dispersion dn/dT	
D_0	$2.11 \cdot 10^{-6}$
D_1	$1.11 \cdot 10^{-8}$
D_2	$1.82 \cdot 10^{-12}$
E_0	$4.74 \cdot 10^{-7}$
E_1	$-3.47 \cdot 10^{-10}$
λ_{TK} [μm]	0.146

Color Code	
λ_{80}/λ_5	37/30
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.0	3.9	4.6	0.8	1.6	2.3
+20/ +40	2.9	3.7	4.4	1.5	2.2	2.9
+60/ +80	3.1	3.8	4.4	2.0	2.7	3.3

N-LAK10 720506.369

$n_d = 1.72003$
 $n_e = 1.72341$

$v_d = 50.62$
 $v_e = 50.39$

$n_F - n_C = 0.014224$
 $n_{F'} - n_{C'} = 0.014357$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.678900
$n_{1970.1}$	1970.1	1.686700
$n_{1529.6}$	1529.6	1.694880
$n_{1060.0}$	1060.0	1.703240
n_t	1014.0	1.704190
n_s	852.1	1.708150
n_r	706.5	1.713280
n_C	656.3	1.715720
$n_{C'}$	643.8	1.716410
$n_{632.8}$	632.8	1.717050
n_D	589.3	1.719900
n_d	587.6	1.720030
n_e	546.1	1.723410
n_F	486.1	1.729950
$n_{F'}$	480.0	1.730770
n_g	435.8	1.737790
n_h	404.7	1.744380
n_i	365.0	1.755780
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.72878017
B_2	0.169257825
B_3	1.19386956
C_1	0.00886014635
C_2	0.0363416509
C_3	82.9009069

Constants of Dispersion dn/dT	
D_0	$4.10 \cdot 10^{-6}$
D_1	$1.23 \cdot 10^{-8}$
D_2	$-7.85 \cdot 10^{-12}$
E_0	$5.08 \cdot 10^{-7}$
E_1	$5.76 \cdot 10^{-10}$
λ_{TK} [μm]	0.205

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.1	5.0	5.8	1.8	2.6	3.4
+20/ +40	4.2	5.1	6.1	2.7	3.6	4.6
+60/ +80	4.4	5.4	6.5	3.2	4.3	5.3

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.43	0.12
2325	0.72	0.44
1970	0.950	0.880
1530	0.991	0.977
1060	0.998	0.995
700	0.999	0.995
660	0.998	0.994
620	0.998	0.994
580	0.997	0.993
546	0.998	0.994
500	0.995	0.988
460	0.991	0.977
436	0.985	0.963
420	0.976	0.940
405	0.963	0.910
400	0.959	0.900
390	0.937	0.850
380	0.901	0.770
370	0.831	0.630
365	0.770	0.520
350	0.442	0.130
334	0.026	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	39/34
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2779
$P_{C,s}$	0.5328
$P_{d,C}$	0.3025
$P_{e,d}$	0.2381
$P_{g,F}$	0.5515
$P_{i,h}$	0.8015
$P'_{s,t}$	0.2753
$P'_{C,s}$	0.5755
$P'_{d,C'}$	0.2521
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4894
$P'_{i,h}$	0.7941

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0256
$\Delta P_{C,s}$	0.0119
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0072
$\Delta P_{i,g}$	-0.0354

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	5.7
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	6.8
T_g [$^{\circ}C$]	636
$T_{10}^{13.0}$ [$^{\circ}C$]	631
$T_{10}^{7.6}$ [$^{\circ}C$]	714
c_p [J/(g·K)]	0.640
λ [W/(m·K)]	0.860
ρ [g/cm ³]	3.69
E [10^3 N/mm ²]	116
μ	0.286
K [10^{-6} mm ² /N]	1.97
$HK_{0.1/20}$	780
HG	2
B	0.00
CR	2
FR	2
SR	52.3
AR	1
PR	3

N-LAK12 678552.410

$n_d = 1.67790$
 $n_e = 1.68083$

$v_d = 55.20$
 $v_e = 54.92$

$n_F - n_C = 0.012281$
 $n_{F'} - n_{C'} = 0.012396$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.645410
$n_{1970.1}$	1970.1	1.651070
$n_{1529.6}$	1529.6	1.657130
$n_{1060.0}$	1060.0	1.663660
n_t	1014.0	1.664430
n_s	852.1	1.667720
n_r	706.5	1.672090
n_C	656.3	1.674190
$n_{C'}$	643.8	1.674780
$n_{632.8}$	632.8	1.675330
n_D	589.3	1.677790
n_d	587.6	1.677900
n_e	546.1	1.680830
n_F	486.1	1.686470
$n_{F'}$	480.0	1.687170
n_g	435.8	1.693200
n_h	404.7	1.698820
n_i	365.0	1.708420
$n_{334.1}$	334.1	1.718810
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.17365704
B_2	0.588992398
B_3	0.978014394
C_1	0.00577031797
C_2	0.0200401678
C_3	95.4873482

Constants of Dispersion dn/dT	
D_0	$-5.67 \cdot 10^{-6}$
D_1	$8.27 \cdot 10^{-9}$
D_2	$1.27 \cdot 10^{-12}$
E_0	$5.25 \cdot 10^{-7}$
E_1	$6.30 \cdot 10^{-10}$
λ_{TK} [μm]	0.162

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-1.0	-0.3	0.3	-3.2	-2.6	-2.0
+20/ +40	-1.2	-0.4	0.3	-2.7	-1.9	-1.2
+60/ +80	-1.2	-0.3	0.5	-2.3	-1.5	-0.7

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.59	0.27
2325	0.76	0.51
1970	0.937	0.850
1530	0.990	0.975
1060	0.997	0.992
700	0.997	0.993
660	0.996	0.989
620	0.995	0.988
580	0.996	0.990
546	0.996	0.991
500	0.994	0.986
460	0.987	0.968
436	0.983	0.958
420	0.981	0.952
405	0.977	0.943
400	0.976	0.940
390	0.967	0.920
380	0.946	0.870
370	0.910	0.790
365	0.882	0.730
350	0.733	0.460
334	0.468	0.150
320	0.152	0.010
310	0.032	
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	37/31
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2673
$P_{C,s}$	0.5269
$P_{d,C}$	0.3024
$P_{e,d}$	0.2383
$P_{g,F}$	0.5485
$P_{i,h}$	0.7818
$P'_{s,t}$	0.2648
$P'_{C,s}$	0.5695
$P'_{d,C'}$	0.2521
$P'_{e,d}$	0.2361
$P'_{g,F'}$	0.4866
$P'_{i,h}$	0.7746

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0126
$\Delta P_{C,s}$	-0.0047
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	-0.0226

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	7.6
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	9.3
T_g [$^{\circ}C$]	614
$T_{10}^{13.0}$ [$^{\circ}C$]	606
$T_{10}^{7.6}$ [$^{\circ}C$]	714
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	4.10
E [10^3 N/mm ²]	87
μ	0.288
K [10^{-6} mm ² /N]	1.44
$HK_{0.1/20}$	560
HG	6
B	1.00
CR	3
FR	1
SR	53.3
AR	3.3
PR	4.3

N-LAK14 697554.363

$n_d = 1.69680$
 $n_e = 1.69980$

$v_d = 55.41$
 $v_e = 55.19$

$n_F - n_C = 0.012575$
 $n_{F'} - n_{C'} = 0.012679$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.657830
$n_{1970.1}$	1970.1	1.665540
$n_{1529.6}$	1529.6	1.673570
$n_{1060.0}$	1060.0	1.681570
n_t	1014.0	1.682460
n_s	852.1	1.686120
n_r	706.5	1.690770
n_C	656.3	1.692970
$n_{C'}$	643.8	1.693580
$n_{632.8}$	632.8	1.694150
n_D	589.3	1.696690
n_d	587.6	1.696800
n_e	546.1	1.699800
n_F	486.1	1.705540
$n_{F'}$	480.0	1.706260
n_g	435.8	1.712370
n_h	404.7	1.718040
n_i	365.0	1.727720
$n_{334.1}$	334.1	1.738190
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.38	0.09
2325	0.67	0.37
1970	0.933	0.840
1530	0.984	0.960
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.997	0.992
580	0.997	0.993
546	0.998	0.995
500	0.997	0.992
460	0.994	0.984
436	0.991	0.977
420	0.988	0.971
405	0.984	0.960
400	0.981	0.953
390	0.971	0.930
380	0.959	0.900
370	0.933	0.840
365	0.915	0.800
350	0.821	0.610
334	0.642	0.330
320	0.428	0.120
310	0.239	0.040
300	0.090	
290	0.020	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2903
$P_{C,s}$	0.5447
$P_{d,C}$	0.3049
$P_{e,d}$	0.2384
$P_{g,F}$	0.5427
$P_{i,h}$	0.7701
$P'_{s,t}$	0.288
$P'_{C,s}$	0.5885
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4819
$P'_{i,h}$	0.7638

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0273
$\Delta P_{C,s}$	0.0127
$\Delta P_{F,e}$	-0.0026
$\Delta P_{g,F}$	-0.0079
$\Delta P_{i,g}$	-0.0386

Constants of Dispersion Formula	
B_1	1.50781212
B_2	0.318866829
B_3	1.14287213
C_1	0.00746098727
C_2	0.0242024834
C_3	80.9565165

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.9
T_g [$^\circ\text{C}$]	661
$T_{10}^{13.0}$ [$^\circ\text{C}$]	653
$T_{10}^{7.6}$ [$^\circ\text{C}$]	734
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.63
E [10^3 N/mm ²]	111
μ	0.283
K [10^{-6} mm ² /N]	1.73
$HK_{0.1/20}$	730
HG	2
B	0.00
CR	3
FR	2
SR	52.3
AR	1
PR	3

Constants of Dispersion dn/dT	
D_0	$2.68 \cdot 10^{-6}$
D_1	$1.15 \cdot 10^{-8}$
D_2	$-1.44 \cdot 10^{-11}$
E_0	$3.72 \cdot 10^{-7}$
E_1	$5.53 \cdot 10^{-10}$
λ_{TK} [μm]	0.226

Color Code	
λ_{80}/λ_5	37/29
(* = λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.2	3.8	4.4	0.9	1.5	2.1
+20/ +40	3.2	4.0	4.7	1.8	2.5	3.2
+60/ +80	3.4	4.2	5.0	2.2	3.0	3.8

N-LAK21 640601.374

$n_d = 1.64049$	$v_d = 60.10$	$n_F - n_C = 0.010657$
$n_e = 1.64304$	$v_e = 59.86$	$n_{F'} - n_{C'} = 0.010743$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.607760
$n_{1970.1}$	1970.1	1.614160
$n_{1529.6}$	1529.6	1.620860
$n_{1060.0}$	1060.0	1.627590
n_t	1014.0	1.628340
n_s	852.1	1.631430
n_r	706.5	1.635380
n_C	656.3	1.637240
$n_{C'}$	643.8	1.637760
$n_{632.8}$	632.8	1.638250
n_D	589.3	1.640400
n_d	587.6	1.640490
n_e	546.1	1.643040
n_F	486.1	1.647900
$n_{F'}$	480.0	1.648500
n_g	435.8	1.653660
n_h	404.7	1.658440
n_i	365.0	1.666570
$n_{334.1}$	334.1	1.675320
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.54	0.21
2325	0.75	0.49
1970	0.946	0.870
1530	0.988	0.970
1060	0.998	0.994
700	0.998	0.994
660	0.996	0.991
620	0.996	0.990
580	0.997	0.992
546	0.997	0.992
500	0.995	0.988
460	0.990	0.976
436	0.987	0.969
420	0.985	0.963
405	0.982	0.955
400	0.979	0.950
390	0.971	0.930
380	0.959	0.900
370	0.928	0.830
365	0.905	0.780
350	0.799	0.570
334	0.565	0.240
320	0.250	0.040
310	0.060	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.29
$P_{C,s}$	0.5453
$P_{d,C}$	0.3052
$P_{e,d}$	0.2385
$P_{g,F}$	0.5411
$P_{i,h}$	0.763
$P'_{s,t}$	0.2877
$P'_{C,s}$	0.5892
$P'_{d,C'}$	0.2545
$P'_{e,d}$	0.2366
$P'_{g,F'}$	0.4804
$P'_{i,h}$	0.7569

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0052
$\Delta P_{C,s}$	0.0023
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0017
$\Delta P_{i,g}$	-0.009

Constants of Dispersion Formula	
B_1	1.22718116
B_2	0.420783743
B_3	1.01284843
C_1	0.00602075682
C_2	0.0196862889
C_3	88.4370099

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.1
T_g [$^\circ\text{C}$]	639
$T_{10}^{13.0}$ [$^\circ\text{C}$]	627
$T_{10}^{7.6}$ [$^\circ\text{C}$]	716
c_p [J/(g·K)]	0.590
λ [W/(m·K)]	0.880
ρ [g/cm ³]	3.74
E [10^3 N/mm ²]	91
μ	0.272
K [10^{-6} mm ² /N]	1.74
$HK_{0.1/20}$	600
HG	5
B	0.00
CR	4
FR	2
SR	53.2
AR	4.3
PR	4.3

Constants of Dispersion dn/dT	
D_0	$-2.36 \cdot 10^{-6}$
D_1	$1.15 \cdot 10^{-8}$
D_2	$1.11 \cdot 10^{-11}$
E_0	$3.10 \cdot 10^{-7}$
E_1	$2.78 \cdot 10^{-10}$
λ_{TK} [μm]	0.234

Color Code	
λ_{80}/λ_5	37/31
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	0.6	1.1	1.6	-1.6	-1.2	-0.7
+20/ +40	0.5	1.0	1.6	-0.9	-0.4	0.1
+60/ +80	0.7	1.3	1.9	-0.4	0.1	0.7

N-LAK22
651559.377

$n_d = 1.65113$	$v_d = 55.89$	$n_F - n_C = 0.011650$
$n_e = 1.65391$	$v_e = 55.63$	$n_F' - n_C' = 0.011755$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.619150
$n_{1970.1}$	1970.1	1.624880
$n_{1529.6}$	1529.6	1.631000
$n_{1060.0}$	1060.0	1.637470
n_t	1014.0	1.638230
n_s	852.1	1.641410
n_r	706.5	1.645600
n_C	656.3	1.647600
$n_{C'}$	643.8	1.648160
$n_{632.8}$	632.8	1.648680
n_D	589.3	1.651030
n_d	587.6	1.651130
n_e	546.1	1.653910
n_F	486.1	1.659250
$n_{F'}$	480.0	1.659920
n_g	435.8	1.665620
n_h	404.7	1.670920
n_i	365.0	1.679970
$n_{334.1}$	334.1	1.689750
$n_{312.6}$	312.6	1.698760
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.67	0.37
2325	0.83	0.62
1970	0.959	0.900
1530	0.991	0.978
1060	0.998	0.994
700	0.998	0.994
660	0.997	0.992
620	0.996	0.991
580	0.997	0.993
546	0.997	0.993
500	0.995	0.988
460	0.992	0.980
436	0.990	0.975
420	0.989	0.973
405	0.987	0.968
400	0.985	0.964
390	0.980	0.950
380	0.967	0.920
370	0.947	0.873
365	0.933	0.840
350	0.844	0.655
334	0.657	0.350
320	0.398	0.100
310	0.209	0.020
300	0.080	
290	0.010	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2729
$P_{C,s}$	0.5314
$P_{d,C}$	0.3031
$P_{e,d}$	0.2384
$P_{g,F}$	0.5467
$P_{i,h}$	0.7771
$P'_{s,t}$	0.2704
$P'_{C,s}$	0.5744
$P'_{d,C'}$	0.2527
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4851
$P'_{i,h}$	0.7702

Constants of Dispersion Formula	
B_1	1.14229781
B_2	0.535138441
B_3	1.04088385
C_1	0.00585778594
C_2	0.0198546147
C_3	100.834017

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0058
$\Delta P_{C,s}$	-0.0018
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0031
$\Delta P_{i,g}$	-0.0236

Constants of Dispersion dn/dT	
D_0	$1.36 \cdot 10^{-6}$
D_1	$1.49 \cdot 10^{-8}$
D_2	$-1.29 \cdot 10^{-11}$
E_0	$3.41 \cdot 10^{-7}$
E_1	$2.09 \cdot 10^{-10}$
λ_{TK} [μm]	0.262

Color Code	
λ_{80}/λ_5	36/30
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.4
T_g [$^\circ\text{C}$]	689
$T_{10}^{13.0}$ [$^\circ\text{C}$]	673
$T_{10}^{7.6}$ [$^\circ\text{C}$]	0
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	
ρ [g/cm ³]	3.77
E [10^3 N/mm ²]	90
μ	0.266
K [10^{-6} mm ² /N]	1.82
$HK_{0.1/20}$	600
HG	4
B	0.00
CR	2
FR	2
SR	51.2
AR	1
PR	2.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.2	2.9	3.6	0.0	0.6	1.3
+20/ +40	2.4	3.1	3.9	1.0	1.7	2.4
+60/ +80	2.7	3.4	4.2	1.6	2.3	3.1

N-LAK33A 754523.422

$n_d = 1.75393$
 $n_e = 1.75737$

$v_d = 52.27$
 $v_e = 52.04$

$n_F - n_C = 0.014424$
 $n_{F'} - n_{C'} = 0.014554$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.712780
$n_{1970.1}$	1970.1	1.720470
$n_{1529.6}$	1529.6	1.728550
$n_{1060.0}$	1060.0	1.736900
n_t	1014.0	1.737860
n_s	852.1	1.741860
n_r	706.5	1.747070
n_C	656.3	1.749560
$n_{C'}$	643.8	1.750250
$n_{632.8}$	632.8	1.750900
n_D	589.3	1.753800
n_d	587.6	1.753930
n_e	546.1	1.757370
n_F	486.1	1.763980
$n_{F'}$	480.0	1.764810
n_g	435.8	1.771870
n_h	404.7	1.778450
n_i	365.0	1.789720
$n_{334.1}$	334.1	1.801950
$n_{312.6}$	312.6	1.813250
$n_{296.7}$	296.7	1.823610
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.44116999
B_2	0.571749501
B_3	1.16605226
C_1	0.00680933877
C_2	0.0222291824
C_3	80.9379555

Constants of Dispersion dn/dT	
D_0	$2.63 \cdot 10^{-6}$
D_1	$1.11 \cdot 10^{-8}$
D_2	$-3.92 \cdot 10^{-12}$
E_0	$5.02 \cdot 10^{-7}$
E_1	$5.08 \cdot 10^{-10}$
λ_{TK} [μm]	0.188

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.4	4.3	5.1	1.1	1.9	2.7
+20/ +40	3.4	4.4	5.3	1.9	2.9	3.7
+60/ +80	3.6	4.7	5.6	2.4	3.5	4.4

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.40	0.10
2325	0.69	0.39
1970	0.937	0.850
1530	0.990	0.975
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.994
580	0.998	0.995
546	0.998	0.996
500	0.998	0.994
460	0.994	0.986
436	0.991	0.978
420	0.988	0.970
405	0.981	0.953
400	0.976	0.940
390	0.967	0.920
380	0.950	0.880
370	0.924	0.820
365	0.905	0.780
350	0.804	0.580
334	0.601	0.280
320	0.336	0.060
310	0.160	
300	0.050	
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	38/30
(* = λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.277
$P_{C,s}$	0.5338
$P_{d,C}$	0.3032
$P_{e,d}$	0.2383
$P_{g,F}$	0.5473
$P_{i,h}$	0.7814
$P'_{s,t}$	0.2746
$P'_{C,s}$	0.5769
$P'_{d,C'}$	0.2527
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4857
$P'_{i,h}$	0.7744

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.018
$\Delta P_{C,s}$	0.0091
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0086
$\Delta P_{i,g}$	-0.0484

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	5.8
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.0
T_g [$^{\circ}C$]	669
$T_{10}^{13.0}$ [$^{\circ}C$]	667
$T_{10}^{7.6}$ [$^{\circ}C$]	744
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.810
ρ [g/cm ³]	4.22
E [10^3 N/mm ²]	121
μ	0.292
K [10^{-6} mm ² /N]	1.49
$HK_{0.1/20}$	740
HG	2
B	0.00
CR	1
FR	1
SR	51
AR	1
PR	2

N-LAK34 729545.402

$n_d = 1.72916$
 $n_e = 1.73235$

$v_d = 54.50$
 $v_e = 54.27$

$n_F - n_C = 0.013379$
 $n_{F'} - n_{C'} = 0.013493$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.689250
$n_{1970.1}$	1970.1	1.696950
$n_{1529.6}$	1529.6	1.705000
$n_{1060.0}$	1060.0	1.713150
n_t	1014.0	1.714070
n_s	852.1	1.717870
n_r	706.5	1.722770
n_C	656.3	1.725090
$n_{C'}$	643.8	1.725740
$n_{632.8}$	632.8	1.726340
n_D	589.3	1.729040
n_d	587.6	1.729160
n_e	546.1	1.732350
n_F	486.1	1.738470
$n_{F'}$	480.0	1.739230
n_g	435.8	1.745750
n_h	404.7	1.751800
n_i	365.0	1.762140
$n_{334.1}$	334.1	1.773310
$n_{312.6}$	312.6	1.783590
$n_{296.7}$	296.7	1.792960
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.26661442
B_2	0.665919318
B_3	1.1249612
C_1	0.00589278062
C_2	0.0197509041
C_3	78.8894174

Constants of Dispersion dn/dT	
D_0	$1.96 \cdot 10^{-6}$
D_1	$9.65 \cdot 10^{-9}$
D_2	$4.40 \cdot 10^{-12}$
E_0	$4.91 \cdot 10^{-7}$
E_1	$5.28 \cdot 10^{-10}$
λ_{TK} [μm]	0.161

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.1	3.9	4.6	0.8	1.5	2.2
+20/ +40	3.0	3.8	4.6	1.5	2.3	3.1
+60/ +80	3.1	4.0	4.9	2.0	2.9	3.7

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.40	0.10
2325	0.67	0.37
1970	0.937	0.850
1530	0.984	0.960
1060	0.998	0.995
700	0.999	0.997
660	0.999	0.997
620	0.998	0.996
580	0.998	0.995
546	0.999	0.997
500	0.998	0.994
460	0.995	0.987
436	0.992	0.979
420	0.989	0.972
405	0.983	0.959
400	0.981	0.952
390	0.976	0.940
380	0.963	0.910
370	0.941	0.860
365	0.924	0.820
350	0.852	0.670
334	0.713	0.430
320	0.525	0.200
310	0.377	0.070
300	0.280	0.030
290	0.170	0.010
280	0.070	
270	0.010	
260		
250		

Color Code	
λ_{80}/λ_5	37/28
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2841
$P_{C,s}$	0.5398
$P_{d,C}$	0.3042
$P_{e,d}$	0.2384
$P_{g,F}$	0.5443
$P_{i,h}$	0.7726
$P'_{s,t}$	0.2817
$P'_{C,s}$	0.5833
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4832
$P'_{i,h}$	0.7661

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0204
$\Delta P_{C,s}$	0.0099
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0079
$\Delta P_{i,g}$	-0.0423

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	5.8
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	6.9
T_g [$^{\circ}C$]	668
$T_{10}^{13.0}$ [$^{\circ}C$]	668
$T_{10}^{7.6}$ [$^{\circ}C$]	740
c_p [J/(g·K)]	0.520
λ [W/(m·K)]	0.820
ρ [g/cm ³]	4.02
E [10^3 N/mm ²]	117
μ	0.290
K [10^{-6} mm ² /N]	1.52
$HK_{0.1/20}$	740
HG	2
B	0.00
CR	1
FR	0
SR	52.3
AR	1
PR	3.3

LLF1
548458.294

$n_d = 1.54814$	$v_d = 45.75$	$n_F - n_C = 0.011981$
$n_e = 1.55099$	$v_e = 45.47$	$n_{F'} - n_{C'} = 0.012118$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.518650
$n_{1970.1}$	1970.1	1.523540
$n_{1529.6}$	1529.6	1.528840
$n_{1060.0}$	1060.0	1.534700
n_t	1014.0	1.535410
n_s	852.1	1.538450
n_r	706.5	1.542560
n_C	656.3	1.544570
$n_{C'}$	643.8	1.545130
$n_{632.8}$	632.8	1.545660
n_D	589.3	1.548030
n_d	587.6	1.548140
n_e	546.1	1.550990
n_F	486.1	1.556550
$n_{F'}$	480.0	1.557250
n_g	435.8	1.563330
n_h	404.7	1.569110
n_i	365.0	1.579320
$n_{334.1}$	334.1	1.590920
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.76	0.50
2325	0.82	0.61
1970	0.933	0.840
1530	0.996	0.990
1060	0.998	0.996
700	0.999	0.997
660	0.998	0.996
620	0.998	0.996
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.998	0.996
436	0.998	0.996
420	0.998	0.995
405	0.998	0.994
400	0.997	0.993
390	0.997	0.992
380	0.995	0.988
370	0.994	0.984
365	0.992	0.981
350	0.982	0.955
334	0.919	0.810
320	0.618	0.300
310	0.240	0.010
300	0.020	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2537
$P_{C,s}$	0.5108
$P_{d,C}$	0.2983
$P_{e,d}$	0.2376
$P_{g,F}$	0.566
$P_{i,h}$	0.852
$P'_{s,t}$	0.2508
$P'_{C,s}$	0.5516
$P'_{d,C'}$	0.2484
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5017
$P'_{i,h}$	0.8424

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0025
$\Delta P_{C,s}$	0.0012
$\Delta P_{F,e}$	-0.0003
$\Delta P_{g,F}$	-0.0009
$\Delta P_{i,g}$	-0.0062

Constants of Dispersion Formula	
B_1	1.21640125
B_2	0.13366454
B_3	0.883399468
C_1	0.00857807248
C_2	0.0420143003
C_3	107.59306

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.2
T_g [$^\circ\text{C}$]	431
$T_{10}^{13.0}$ [$^\circ\text{C}$]	426
$T_{10}^{7.6}$ [$^\circ\text{C}$]	628
c_p [J/(g·K)]	0.650
λ [W/(m·K)]	
ρ [g/cm ³]	2.94
E [10^3 N/mm ²]	60
μ	0.208
K [10^{-6} mm ² /N]	3.05
$HK_{0.1/20}$	450
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	2
PR	1

Constants of Dispersion dn/dT	
D_0	$3.25 \cdot 10^{-7}$
D_1	$1.74 \cdot 10^{-8}$
D_2	$-6.12 \cdot 10^{-11}$
E_0	$6.53 \cdot 10^{-7}$
E_1	$2.58 \cdot 10^{-10}$
λ_{TK} [μm]	0.233

Color Code	
λ_{80}/λ_5	33/31
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.5	2.4	3.4	-0.6	0.3	1.3
+20/ +40	1.9	2.9	3.9	0.6	1.5	2.5
+60/ +80	2.0	3.0	4.1	1.0	2.0	3.0

N-BAF4
606437.289

$n_d = 1.60568$	$v_d = 43.72$	$n_F - n_C = 0.013853$
$n_e = 1.60897$	$v_e = 43.43$	$n_F' - n_C' = 0.014021$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.570920
$n_{1970.1}$	1970.1	1.576850
$n_{1529.6}$	1529.6	1.583230
$n_{1060.0}$	1060.0	1.590160
n_t	1014.0	1.590990
n_s	852.1	1.594520
n_r	706.5	1.599260
n_C	656.3	1.601570
$n_{C'}$	643.8	1.602220
$n_{632.8}$	632.8	1.602820
n_D	589.3	1.605560
n_d	587.6	1.605680
n_e	546.1	1.608970
n_F	486.1	1.615420
$n_{F'}$	480.0	1.616240
n_g	435.8	1.623360
n_h	404.7	1.630220
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.71	0.42
2325	0.84	0.64
1970	0.954	0.890
1530	0.991	0.977
1060	0.998	0.994
700	0.998	0.994
660	0.996	0.991
620	0.996	0.990
580	0.997	0.992
546	0.997	0.992
500	0.994	0.985
460	0.988	0.971
436	0.983	0.959
420	0.976	0.940
405	0.959	0.900
400	0.946	0.870
390	0.901	0.770
380	0.804	0.580
370	0.601	0.280
365	0.442	0.130
350	0.012	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2545
$P_{C,s}$	0.5089
$P_{d,C}$	0.2972
$P_{e,d}$	0.2372
$P_{g,F}$	0.5733
$P_{i,h}$	
$P'_{s,t}$	0.2515
$P'_{C,s}$	0.5491
$P'_{d,C'}$	0.2473
$P'_{e,d}$	0.2344
$P'_{g,F'}$	0.5081
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.42056328
B_2	0.102721269
B_3	1.14380976
C_1	0.00942015382
C_2	0.0531087291
C_3	110.278856

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.011
$\Delta P_{C,s}$	0.0041
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.003
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$9.39 \cdot 10^{-7}$
D_1	$1.24 \cdot 10^{-8}$
D_2	$-9.00 \cdot 10^{-12}$
E_0	$6.17 \cdot 10^{-7}$
E_1	$8.42 \cdot 10^{-10}$
λ_{TK} [μm]	0.242

Color Code	
λ_{80}/λ_5	39/35
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.3
T_g [$^\circ\text{C}$]	580
$T_{10}^{13.0}$ [$^\circ\text{C}$]	580
$T_{10}^{7.6}$ [$^\circ\text{C}$]	709
c_p [J/(g·K)]	0.740
λ [W/(m·K)]	1.020
ρ [g/cm ³]	2.89
E [10^3 N/mm ²]	85
μ	0.231
K [10^{-6} mm ² /N]	2.58
$HK_{0.1/20}$	610
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1.2
PR	1.3

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	2.2	3.1	4.1	0.1	0.9	1.9
+20/ +40	2.2	3.3	4.5	0.9	1.9	3.0
+60/ +80	2.4	3.6	4.9	1.3	2.5	3.8

N-BAF10 670471.375

$n_d = 1.67003$
 $n_e = 1.67341$

$v_d = 47.11$
 $v_e = 46.83$

$n_F - n_C = 0.014222$
 $n_{F'} - n_{C'} = 0.014380$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.635240
$n_{1970.1}$	1970.1	1.640940
$n_{1529.6}$	1529.6	1.647140
$n_{1060.0}$	1060.0	1.654040
n_t	1014.0	1.654880
n_s	852.1	1.658490
n_r	706.5	1.663390
n_C	656.3	1.665780
$n_{C'}$	643.8	1.666450
$n_{632.8}$	632.8	1.667080
n_D	589.3	1.669900
n_d	587.6	1.670030
n_e	546.1	1.673410
n_F	486.1	1.680000
$n_{F'}$	480.0	1.680830
n_g	435.8	1.688010
n_h	404.7	1.694800
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.5851495
B_2	0.143559385
B_3	1.08521269
C_1	0.00926681282
C_2	0.0424489805
C_3	105.613573

Constants of Dispersion dn/dT	
D_0	$3.79 \cdot 10^{-6}$
D_1	$1.28 \cdot 10^{-8}$
D_2	$-1.42 \cdot 10^{-11}$
E_0	$5.84 \cdot 10^{-7}$
E_1	$7.60 \cdot 10^{-10}$
λ_{TK} [μm]	0.220

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.7	4.7	5.6	1.5	2.4	3.3
+20/ +40	3.8	4.9	6.0	2.4	3.5	4.5
+60/ +80	4.0	5.2	6.4	2.9	4.1	5.3

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.73	0.45
2325	0.86	0.68
1970	0.967	0.920
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.994
660	0.996	0.990
620	0.996	0.991
580	0.996	0.990
546	0.996	0.990
500	0.992	0.981
460	0.987	0.967
436	0.981	0.954
420	0.976	0.940
405	0.959	0.900
400	0.950	0.880
390	0.915	0.800
380	0.847	0.660
370	0.720	0.440
365	0.626	0.310
350	0.176	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	39/35
(* = λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2539
$P_{C,s}$	0.5122
$P_{d,C}$	0.2989
$P_{e,d}$	0.2377
$P_{g,F}$	0.5629
$P_{i,h}$	
$P'_{s,t}$	0.2511
$P'_{C,s}$	0.5533
$P'_{d,C'}$	0.2489
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.499
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0024
$\Delta P_{C,s}$	-0.0005
$\Delta P_{F,e}$	-0.0003
$\Delta P_{g,F}$	-0.0016
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	6.2
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.0
T_g [$^{\circ}C$]	660
$T_{10}^{13.0}$ [$^{\circ}C$]	652
$T_{10}^{7.6}$ [$^{\circ}C$]	790
c_p [J/(g·K)]	0.560
λ [W/(m·K)]	0.780
ρ [g/cm ³]	3.75
E [10^3 N/mm ²]	89
μ	0.271
K [10^{-6} mm ² /N]	2.37
$HK_{0.1/20}$	620
HG	4
B	1.00
CR	1
FR	0
SR	4.3
AR	1.3
PR	1

N-BAF51 652450.333

$n_d = 1.65224$	$v_d = 44.96$	$n_F - n_C = 0.014507$
$n_e = 1.65569$	$v_e = 44.67$	$n_F' - n_C' = 0.014677$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.618730
$n_{1970.1}$	1970.1	1.623900
$n_{1529.6}$	1529.6	1.629610
$n_{1060.0}$	1060.0	1.636190
n_t	1014.0	1.637010
n_s	852.1	1.640590
n_r	706.5	1.645510
n_C	656.3	1.647920
$n_{C'}$	643.8	1.648600
$n_{632.8}$	632.8	1.649240
n_D	589.3	1.652110
n_d	587.6	1.652240
n_e	546.1	1.655690
n_F	486.1	1.662430
$n_{F'}$	480.0	1.663280
n_g	435.8	1.670650
n_h	404.7	1.677660
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.75	0.48
2325	0.83	0.63
1970	0.946	0.870
1530	0.992	0.980
1060	0.997	0.993
700	0.997	0.993
660	0.996	0.990
620	0.996	0.990
580	0.997	0.992
546	0.996	0.991
500	0.994	0.985
460	0.988	0.970
436	0.982	0.956
420	0.976	0.940
405	0.963	0.910
400	0.954	0.890
390	0.924	0.820
380	0.862	0.690
370	0.739	0.470
365	0.642	0.330
350	0.209	0.020
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2463
$P_{C,s}$	0.5055
$P_{d,C}$	0.2977
$P_{e,d}$	0.2376
$P_{g,F}$	0.567
$P_{i,h}$	
$P'_{s,t}$	0.2435
$P'_{C,s}$	0.546
$P'_{d,C'}$	0.2479
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5024
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.51503623
B_2	0.153621958
B_3	1.15427909
C_1	0.00942734715
C_2	0.04308265
C_3	124.889868

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0064
$\Delta P_{C,s}$	-0.0022
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0012
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-2.84 \cdot 10^{-7}$
D_1	$1.04 \cdot 10^{-8}$
D_2	$-1.80 \cdot 10^{-11}$
E_0	$7.01 \cdot 10^{-7}$
E_1	$8.47 \cdot 10^{-10}$
λ_{TK} [μm]	0.219

Color Code	
λ_{80}/λ_5	39/34
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.5
T_g [$^\circ\text{C}$]	569
$T_{10}^{13.0}$ [$^\circ\text{C}$]	574
$T_{10}^{7.6}$ [$^\circ\text{C}$]	712
c_p [J/(g·K)]	0.840
λ [W/(m·K)]	0.670
ρ [g/cm ³]	3.33
E [10^3 N/mm ²]	91
μ	0.262
K [10^{-6} mm ² /N]	2.22
$HK_{0.1/20}$	560
HG	5
B	1.00
CR	2
FR	0
SR	5.4
AR	1.3
PR	1

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	1.7	2.8	3.8	-0.5	0.5	1.5
+20/ +40	1.7	2.9	4.1	0.3	1.5	2.7
+60/ +80	1.8	3.1	4.4	0.7	2.0	3.3

N-BAF52
609466.305

$n_d = 1.60863$	$v_d = 46.60$	$n_F - n_C = 0.013061$
$n_e = 1.61173$	$v_e = 46.30$	$n_{F'} - n_{C'} = 0.013211$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.574750
$n_{1970.1}$	1970.1	1.580670
$n_{1529.6}$	1529.6	1.587020
$n_{1060.0}$	1060.0	1.593810
n_t	1014.0	1.594610
n_s	852.1	1.598010
n_r	706.5	1.602540
n_C	656.3	1.604730
$n_{C'}$	643.8	1.605350
$n_{632.8}$	632.8	1.605930
n_D	589.3	1.608520
n_d	587.6	1.608630
n_e	546.1	1.611730
n_F	486.1	1.617790
$n_{F'}$	480.0	1.618560
n_g	435.8	1.625210
n_h	404.7	1.631570
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.69	0.39
2325	0.83	0.63
1970	0.954	0.890
1530	0.990	0.975
1060	0.998	0.994
700	0.997	0.993
660	0.996	0.990
620	0.996	0.989
580	0.996	0.990
546	0.996	0.989
500	0.992	0.980
460	0.987	0.967
436	0.981	0.954
420	0.975	0.938
405	0.959	0.900
400	0.950	0.880
390	0.915	0.800
380	0.842	0.650
370	0.672	0.370
365	0.536	0.210
350	0.048	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.26
$P_{C,s}$	0.5147
$P_{d,C}$	0.2985
$P_{e,d}$	0.2374
$P_{g,F}$	0.5678
$P_{i,h}$	
$P'_{s,t}$	0.2571
$P'_{C,s}$	0.5555
$P'_{d,C'}$	0.2485
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5035
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.43903433
B_2	0.0967046052
B_3	1.09875818
C_1	0.00907800128
C_2	0.050821208
C_3	105.691856

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0087
$\Delta P_{C,s}$	0.0031
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0024
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$1.15 \cdot 10^{-6}$
D_1	$1.27 \cdot 10^{-8}$
D_2	$-5.08 \cdot 10^{-12}$
E_0	$5.64 \cdot 10^{-7}$
E_1	$6.38 \cdot 10^{-10}$
λ_{TK} [μm]	0.238

Color Code	
λ_{80}/λ_5	39/35
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.8
T_g [$^\circ\text{C}$]	594
$T_{10} 13.0$ [$^\circ\text{C}$]	596
$T_{10} 7.6$ [$^\circ\text{C}$]	723
c_p [J/(g·K)]	0.680
λ [W/(m·K)]	0.960
ρ [g/cm ³]	3.05
E [10^3 N/mm ²]	86
μ	0.237
K [10^{-6} mm ² /N]	2.42
$HK_{0.1/20}$	600
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1.3
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.3	3.1	4.0	0.2	0.9	1.8
+20/ +40	2.3	3.3	4.3	0.9	1.9	2.9
+60/ +80	2.5	3.6	4.7	1.4	2.5	3.6

LF5
581409.322

$n_d = 1.58144$	$v_d = 40.85$	$n_F - n_C = 0.014233$
$n_e = 1.58482$	$v_e = 40.57$	$n_{F'} - n_{C'} = 0.014413$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.549660
$n_{1970.1}$	1970.1	1.554450
$n_{1529.6}$	1529.6	1.559750
$n_{1060.0}$	1060.0	1.565940
n_t	1014.0	1.566720
n_s	852.1	1.570140
n_r	706.5	1.574890
n_C	656.3	1.577230
$n_{C'}$	643.8	1.577890
$n_{632.8}$	632.8	1.578510
n_D	589.3	1.581320
n_d	587.6	1.581440
n_e	546.1	1.584820
n_F	486.1	1.591460
$n_{F'}$	480.0	1.592310
n_g	435.8	1.599640
n_h	404.7	1.606680
n_i	365.0	1.619260
$n_{334.1}$	334.1	1.633800
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500		
2325	0.85	0.66
1970	0.946	0.870
1530	0.997	0.992
1060	0.999	0.998
700	0.999	0.998
660	0.999	0.998
620	0.999	0.998
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.998	0.995
436	0.998	0.994
420	0.997	0.993
405	0.997	0.992
400	0.997	0.992
390	0.994	0.984
380	0.989	0.973
370	0.984	0.961
365	0.981	0.954
350	0.950	0.880
334	0.799	0.570
320	0.320	0.040
310	0.040	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2401
$P_{C,s}$	0.4981
$P_{d,C}$	0.2959
$P_{e,d}$	0.2373
$P_{g,F}$	0.5748
$P_{i,h}$	0.8836
$P'_{s,t}$	0.2371
$P'_{C,s}$	0.5378
$P'_{d,C'}$	0.2462
$P'_{e,d}$	0.2343
$P'_{g,F'}$	0.5091
$P'_{i,h}$	0.8726

Constants of Dispersion Formula	
B_1	1.28035628
B_2	0.163505973
B_3	0.893930112
C_1	0.00929854416
C_2	0.0449135769
C_3	110.493685

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0006
$\Delta P_{C,s}$	0
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0003
$\Delta P_{i,g}$	-0.0037

Constants of Dispersion dn/dT	
D_0	$-2.27 \cdot 10^{-6}$
D_1	$9.71 \cdot 10^{-9}$
D_2	$-2.83 \cdot 10^{-11}$
E_0	$8.36 \cdot 10^{-7}$
E_1	$9.95 \cdot 10^{-10}$
λ_{TK} [μm]	0.228

Color Code	
λ_{80}/λ_5	34/31
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	10.6
T_g [$^\circ\text{C}$]	419
$T_{10}^{13.0}$ [$^\circ\text{C}$]	411
$T_{10}^{7.6}$ [$^\circ\text{C}$]	585
c_p [J/(g·K)]	0.657
λ [W/(m·K)]	0.866
ρ [g/cm ³]	3.22
E [10^3 N/mm ²]	59
μ	0.223
K [10^{-6} mm ² /N]	2.83
$HK_{0.1/20}$	450
HG	2
B	1.00
CR	2
FR	0
SR	1
AR	2.3
PR	2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	0.8	1.9	3.1	-1.3	-0.2	0.9
+20/ +40	0.8	2.0	3.4	-0.6	0.7	2.0
+60/ +80	0.8	2.2	3.7	-0.3	1.1	2.6

F2
620364.360

$n_d = 1.62004$	$v_d = 36.37$	$n_F - n_C = 0.017050$
$n_e = 1.62408$	$v_e = 36.11$	$n_F' - n_C' = 0.017284$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.584650
$n_{1970.1}$	1970.1	1.589580
$n_{1529.6}$	1529.6	1.595130
$n_{1060.0}$	1060.0	1.601900
n_t	1014.0	1.602790
n_s	852.1	1.606710
n_r	706.5	1.612270
n_C	656.3	1.615030
$n_{C'}$	643.8	1.615820
$n_{632.8}$	632.8	1.616560
n_D	589.3	1.619890
n_d	587.6	1.620040
n_e	546.1	1.624080
n_F	486.1	1.632080
$n_{F'}$	480.0	1.633100
n_g	435.8	1.642020
n_h	404.7	1.650640
n_i	365.0	1.666230
$n_{334.1}$	334.1	1.684550
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.81	0.59
2325	0.86	0.69
1970	0.949	0.876
1530	0.996	0.989
1060	0.999	0.998
700	0.999	0.998
660	0.999	0.997
620	0.999	0.998
580	0.999	0.998
546	0.999	0.998
500	0.999	0.997
460	0.998	0.994
436	0.997	0.993
420	0.996	0.991
405	0.995	0.987
400	0.994	0.985
390	0.991	0.977
380	0.985	0.963
370	0.975	0.940
365	0.968	0.921
350	0.905	0.780
334	0.537	0.211
320	0.080	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2301
$P_{C,s}$	0.4882
$P_{d,C}$	0.2938
$P_{e,d}$	0.237
$P_{g,F}$	0.5828
$P_{i,h}$	0.9142
$P'_{s,t}$	0.227
$P'_{C,s}$	0.527
$P'_{d,C'}$	0.2443
$P'_{e,d}$	0.2338
$P'_{g,F'}$	0.5159
$P'_{i,h}$	0.9018

Constants of Dispersion Formula	
B_1	1.34533359
B_2	0.209073176
B_3	0.937357162
C_1	0.00997743871
C_2	0.0470450767
C_3	111.886764

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0008
$\Delta P_{C,s}$	0.0005
$\Delta P_{F,e}$	0
$\Delta P_{g,F}$	0.0002
$\Delta P_{i,g}$	0.0006

Constants of Dispersion dn/dT	
D_0	$1.51 \cdot 10^{-6}$
D_1	$1.56 \cdot 10^{-8}$
D_2	$-2.78 \cdot 10^{-11}$
E_0	$9.34 \cdot 10^{-7}$
E_1	$1.04 \cdot 10^{-9}$
λ_{TK} [μm]	0.250

Color Code	
λ_{80}/λ_5	35/32
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	8.2
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	9.2
T_g [$^\circ C$]	434
$T_{10}^{13.0}$ [$^\circ C$]	430
$T_{10}^{7.6}$ [$^\circ C$]	594
c_p [J/(g·K)]	0.557
λ [W/(m·K)]	0.780
ρ [g/cm ³]	3.60
E [10^3 N/mm ²]	57
μ	0.220
K [10^{-6} mm ² /N]	2.81
$HK_{0.1/20}$	420
HG	2
B	0.00
CR	1
FR	0
SR	1
AR	2.3
PR	1.3

Temperature Coefficients of Refractive Index						
[$^\circ C$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	2.4	3.9	5.5	0.3	1.6	3.2
+20/ +40	2.7	4.4	6.3	1.3	3.0	4.8
+60/ +80	3.0	4.8	6.8	1.9	3.7	5.7

F5
603380.347

$n_d = 1.60342$	$v_d = 38.03$	$n_F - n_C = 0.015867$
$n_e = 1.60718$	$v_e = 37.77$	$n_F' - n_C' = 0.016078$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.569340
$n_{1970.1}$	1970.1	1.574270
$n_{1529.6}$	1529.6	1.579790
$n_{1060.0}$	1060.0	1.586360
n_t	1014.0	1.587210
n_s	852.1	1.590930
n_r	706.5	1.596160
n_C	656.3	1.598750
$n_{C'}$	643.8	1.599480
$n_{632.8}$	632.8	1.600170
n_D	589.3	1.603280
n_d	587.6	1.603420
n_e	546.1	1.607180
n_F	486.1	1.614610
$n_{F'}$	480.0	1.615560
n_g	435.8	1.623810
n_h	404.7	1.631760
n_i	365.0	1.646060
$n_{334.1}$	334.1	1.662760
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.79	0.55
2325	0.84	0.65
1970	0.941	0.860
1530	0.995	0.987
1060	0.999	0.998
700	0.999	0.997
660	0.998	0.996
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.998	0.994
460	0.996	0.991
436	0.996	0.990
420	0.995	0.988
405	0.994	0.985
400	0.993	0.982
390	0.989	0.973
380	0.984	0.960
370	0.971	0.930
365	0.963	0.910
350	0.896	0.760
334	0.618	0.300
320	0.080	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2346
$P_{C,s}$	0.4925
$P_{d,C}$	0.2946
$P_{e,d}$	0.2371
$P_{g,F}$	0.5795
$P_{i,h}$	0.9015
$P'_{s,t}$	0.2315
$P'_{C,s}$	0.5317
$P'_{d,C'}$	0.2451
$P'_{e,d}$	0.234
$P'_{g,F'}$	0.5131
$P'_{i,h}$	0.8897

Constants of Dispersion Formula	
B_1	1.3104463
B_2	0.19603426
B_3	0.96612977
C_1	0.00958633048
C_2	0.0457627627
C_3	115.011883

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0017
$\Delta P_{C,s}$	0.0009
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0003
$\Delta P_{i,g}$	-0.0028

Constants of Dispersion dn/dT	
D_0	$2.13 \cdot 10^{-6}$
D_1	$1.65 \cdot 10^{-8}$
D_2	$-6.98 \cdot 10^{-11}$
E_0	$1.02 \cdot 10^{-6}$
E_1	$6.56 \cdot 10^{-10}$
λ_{TK} [μm]	0.208

Color Code	
λ_{80}/λ_5	35/32
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.9
T_g [$^\circ\text{C}$]	438
$T_{10}^{13.0}$ [$^\circ\text{C}$]	425
$T_{10}^{7.6}$ [$^\circ\text{C}$]	608
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.47
E [10^3 N/mm ²]	58
μ	0.220
K [10^{-6} mm ² /N]	2.92
$HK_{0.1/20}$	450
HG	3
B	0.00
CR	1
FR	0
SR	1
AR	2.3
PR	2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.5	4.0	5.5	0.4	1.8	3.3
+20/ +40	3.0	4.6	6.2	1.6	3.2	4.8
+60/ +80	3.1	4.8	6.5	2.0	3.7	5.4

N-F2
620364.265

$n_d = 1.62005$	$v_d = 36.43$	$n_F - n_C = 0.017020$
$n_e = 1.62408$	$v_e = 36.16$	$n_F' - n_C' = 0.017258$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.581360
$n_{1970.1}$	1970.1	1.587440
$n_{1529.6}$	1529.6	1.594100
$n_{1060.0}$	1060.0	1.601670
n_t	1014.0	1.602610
n_s	852.1	1.606670
n_r	706.5	1.612290
n_C	656.3	1.615060
$n_{C'}$	643.8	1.615840
$n_{632.8}$	632.8	1.616580
n_D	589.3	1.619900
n_d	587.6	1.620050
n_e	546.1	1.624080
n_F	486.1	1.632080
$n_{F'}$	480.0	1.633100
n_g	435.8	1.642090
n_h	404.7	1.650870
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.75	0.48
2325	0.84	0.64
1970	0.950	0.880
1530	0.991	0.977
1060	0.998	0.996
700	0.997	0.992
660	0.996	0.990
620	0.996	0.991
580	0.997	0.993
546	0.997	0.992
500	0.994	0.984
460	0.989	0.973
436	0.985	0.963
420	0.980	0.950
405	0.959	0.900
400	0.946	0.870
390	0.891	0.750
380	0.764	0.510
370	0.480	0.160
365	0.276	0.040
350	0.096	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2389
$P_{C,s}$	0.4925
$P_{d,C}$	0.2935
$P_{e,d}$	0.2366
$P_{g,F}$	0.5881
$P_{i,h}$	
$P'_{s,t}$	0.2356
$P'_{C,s}$	0.5312
$P'_{d,C'}$	0.244
$P'_{e,d}$	0.2334
$P'_{g,F'}$	0.5208
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.39757037
B_2	0.159201403
B_3	1.2686543
C_1	0.00995906143
C_2	0.0546931752
C_3	119.248346

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0137
$\Delta P_{C,s}$	0.0047
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0056
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$4.62 \cdot 10^{-7}$
D_1	$1.17 \cdot 10^{-8}$
D_2	$-2.35 \cdot 10^{-11}$
E_0	$7.47 \cdot 10^{-7}$
E_1	$9.81 \cdot 10^{-10}$
λ_{TK} [μm]	0.263

Color Code	
λ_{80}/λ_5	39/36
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.1
T_g [$^\circ\text{C}$]	569
$T_{10}^{13.0}$ [$^\circ\text{C}$]	567
$T_{10}^{7.6}$ [$^\circ\text{C}$]	686
c_p [J/(g·K)]	0.810
λ [W/(m·K)]	1.050
ρ [g/cm ³]	2.65
E [10^3 N/mm ²]	82
μ	0.228
K [10^{-6} mm ² /N]	3.03
$HK_{0.1/20}$	600
HG	2
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.0	3.2	4.6	-0.1	1.0	2.3
+20/ +40	2.1	3.5	5.1	0.7	2.0	3.6
+60/ +80	2.2	3.7	5.5	1.1	2.6	4.4

N-BASF2 664360.315

$n_d = 1.66446$
 $n_e = 1.66883$

$v_d = 36.00$
 $v_e = 35.73$

$n_F - n_C = 0.018457$
 $n_{F'} - n_{C'} = 0.018720$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.625520
$n_{1970.1}$	1970.1	1.631090
$n_{1529.6}$	1529.6	1.637340
$n_{1060.0}$	1060.0	1.644840
n_t	1014.0	1.645810
n_s	852.1	1.650070
n_r	706.5	1.656070
n_C	656.3	1.659050
$n_{C'}$	643.8	1.659900
$n_{632.8}$	632.8	1.660700
n_D	589.3	1.664300
n_d	587.6	1.664460
n_e	546.1	1.668830
n_F	486.1	1.677510
$n_{F'}$	480.0	1.678620
n_g	435.8	1.688380
n_h	404.7	1.697920
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.53652081
B_2	0.156971102
B_3	1.30196815
C_1	0.0108435729
C_2	0.0562278762
C_3	131.3397

Constants of Dispersion dn/dT	
D_0	$1.89 \cdot 10^{-6}$
D_1	$1.22 \cdot 10^{-8}$
D_2	$-1.61 \cdot 10^{-11}$
E_0	$7.77 \cdot 10^{-7}$
E_1	$9.96 \cdot 10^{-10}$
λ_{TK} [μm]	0.256

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.8	4.1	5.6	0.6	1.9	3.3
+20/ +40	2.9	4.4	6.2	1.5	3.0	4.7
+60/ +80	3.1	4.8	6.7	2.0	3.6	5.5

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.86	0.68
2325	0.90	0.76
1970	0.971	0.930
1530	0.994	0.985
1060	0.999	0.997
700	0.996	0.990
660	0.994	0.985
620	0.994	0.985
580	0.995	0.987
546	0.994	0.985
500	0.988	0.971
460	0.980	0.951
436	0.971	0.930
420	0.954	0.890
405	0.915	0.800
400	0.891	0.750
390	0.804	0.580
380	0.634	0.320
370	0.325	0.060
365	0.158	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	41/36
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2309
$P_{C,s}$	0.4869
$P_{d,C}$	0.2929
$P_{e,d}$	0.2367
$P_{g,F}$	0.589
$P_{i,h}$	
$P'_{s,t}$	0.2277
$P'_{C,s}$	0.5253
$P'_{d,C'}$	0.2435
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5214
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0021
$\Delta P_{C,s}$	0.0001
$\Delta P_{F,e}$	0.001
$\Delta P_{g,F}$	0.0057
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/K$]	7.1
$\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/K$]	8.1
T_g [$^{\circ}\text{C}$]	619
$T_{10}^{13.0}$ [$^{\circ}\text{C}$]	622
$T_{10}^{7.6}$ [$^{\circ}\text{C}$]	766
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	0.940
ρ [g/cm ³]	3.15
E [10^3 N/mm ²]	84
μ	0.247
K [10^{-6} mm ² /N]	3.04
$HK_{0.1/20}$	580
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

N-BASF64 704394.320

$n_d = 1.70400$
 $n_e = 1.70824$

$v_d = 39.38$
 $v_e = 39.12$

$n_F - n_C = 0.017875$
 $n_{F'} - n_{C'} = 0.018105$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.663730
$n_{1970.1}$	1970.1	1.669880
$n_{1529.6}$	1529.6	1.676670
$n_{1060.0}$	1060.0	1.684530
n_t	1014.0	1.685510
n_s	852.1	1.689820
n_r	706.5	1.695780
n_C	656.3	1.698720
$n_{C'}$	643.8	1.699550
$n_{632.8}$	632.8	1.700330
n_D	589.3	1.703840
n_d	587.6	1.704000
n_e	546.1	1.708240
n_F	486.1	1.716590
$n_{F'}$	480.0	1.717650
n_g	435.8	1.726900
n_h	404.7	1.735810
n_i	365.0	1.751840
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.65554268
B_2	0.17131977
B_3	1.33664448
C_1	0.0104485644
C_2	0.0499394756
C_3	118.961472

Constants of Dispersion dn/dT	
D_0	$1.60 \cdot 10^{-6}$
D_1	$1.02 \cdot 10^{-8}$
D_2	$-2.68 \cdot 10^{-11}$
E_0	$7.87 \cdot 10^{-7}$
E_1	$9.65 \cdot 10^{-10}$
λ_{TK} [μm]	0.229

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.8	4.1	5.5	0.6	1.8	3.1
+20/ +40	2.8	4.3	5.9	1.4	2.8	4.4
+60/ +80	2.9	4.5	6.3	1.8	3.4	5.1

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.73	0.45
2325	0.85	0.67
1970	0.959	0.900
1530	0.988	0.970
1060	0.994	0.985
700	0.988	0.970
660	0.982	0.955
620	0.979	0.949
580	0.979	0.949
546	0.980	0.950
500	0.976	0.940
460	0.967	0.920
436	0.959	0.900
420	0.950	0.880
405	0.933	0.840
400	0.924	0.820
390	0.891	0.750
380	0.821	0.610
370	0.672	0.370
365	0.546	0.220
350	0.090	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	40/35
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2408
$P_{C,s}$	0.4979
$P_{d,C}$	0.2956
$P_{e,d}$	0.2372
$P_{g,F}$	0.5769
$P_{i,h}$	0.897
$P'_{s,t}$	0.2377
$P'_{C,s}$	0.5375
$P'_{d,C'}$	0.2459
$P'_{e,d}$	0.2342
$P'_{g,F'}$	0.511
$P'_{i,h}$	0.8856

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0069
$\Delta P_{C,s}$	0.0032
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0006
$\Delta P_{i,g}$	0.0012

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	7.3
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	8.7
T_g [$^{\circ}C$]	582
$T_{10}^{13.0}$ [$^{\circ}C$]	585
$T_{10}^{7.6}$ [$^{\circ}C$]	712
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.20
E [10^3 N/mm ²]	105
μ	0.264
K [10^{-6} mm ² /N]	2.38
$HK_{0.1/20}$	650
HG	4
B	0.00
CR	1
FR	0
SR	3.2
AR	1.2
PR	1

LAFN7
750350.438

$n_d = 1.74950$
 $n_e = 1.75458$

$v_d = 34.95$
 $v_e = 34.72$

$n_F - n_C = 0.021445$
 $n_{F'} - n_{C'} = 0.021735$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.702110
$n_{1970.1}$	1970.1	1.709340
$n_{1529.6}$	1529.6	1.717260
$n_{1060.0}$	1060.0	1.726420
n_t	1014.0	1.727580
n_s	852.1	1.732640
n_r	706.5	1.739700
n_C	656.3	1.743190
$n_{C'}$	643.8	1.744180
$n_{632.8}$	632.8	1.745110
n_D	589.3	1.749310
n_d	587.6	1.749500
n_e	546.1	1.754580
n_F	486.1	1.764640
$n_{F'}$	480.0	1.765920
n_g	435.8	1.777130
n_h	404.7	1.787980
n_i	365.0	1.807620
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.38	0.09
2325	0.70	0.41
1970	0.937	0.850
1530	0.984	0.960
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.994
500	0.998	0.994
460	0.993	0.982
436	0.986	0.965
420	0.976	0.940
405	0.950	0.880
400	0.937	0.850
390	0.905	0.780
380	0.842	0.650
370	0.693	0.400
365	0.546	0.220
350	0.125	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.236
$P_{C,s}$	0.4921
$P_{d,C}$	0.2941
$P_{e,d}$	0.2369
$P_{g,F}$	0.5825
$P_{i,h}$	0.916
$P'_{s,t}$	0.2329
$P'_{C,s}$	0.5311
$P'_{d,C'}$	0.2446
$P'_{e,d}$	0.2338
$P'_{g,F'}$	0.5158
$P'_{i,h}$	0.9037

Constants of Dispersion Formula	
B_1	1.66842615
B_2	0.298512803
B_3	1.0774376
C_1	0.0103159999
C_2	0.0469216348
C_3	82.5078509

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0174
$\Delta P_{C,s}$	0.0078
$\Delta P_{F,e}$	-0.0011
$\Delta P_{g,F}$	-0.0025
$\Delta P_{i,g}$	-0.0093

Constants of Dispersion dn/dT	
D_0	$7.27 \cdot 10^{-6}$
D_1	$1.31 \cdot 10^{-8}$
D_2	$-3.32 \cdot 10^{-11}$
E_0	$8.88 \cdot 10^{-7}$
E_1	$9.32 \cdot 10^{-10}$
λ_{TK} [μm]	0.248

Color Code	
λ_{80}/λ_5	40/35
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.4
T_g [$^\circ\text{C}$]	500
$T_{10}^{13.0}$ [$^\circ\text{C}$]	481
$T_{10}^{7.6}$ [$^\circ\text{C}$]	573
c_p [J/(g·K)]	
λ [W/(m·K)]	0.770
ρ [g/cm ³]	4.38
E [10^3 N/mm ²]	80
μ	0.280
K [10^{-6} mm ² /N]	1.77
$HK_{0.1/20}$	520
HG	3
B	0.00
CR	3
FR	1
SR	53.3
AR	2.2
PR	4.3

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	6.0	7.8	9.7	3.7	5.4	7.2
+20/ +40	6.3	8.3	10.4	4.8	6.7	8.9
+60/ +80	6.5	8.6	10.9	5.3	7.4	9.7

N-LAF2
744449.430

$n_d = 1.74397$	$v_d = 44.85$	$n_F - n_C = 0.016588$
$n_e = 1.74791$	$v_e = 44.57$	$n_F' - n_C' = 0.016780$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.705820
$n_{1970.1}$	1970.1	1.711690
$n_{1529.6}$	1529.6	1.718160
$n_{1060.0}$	1060.0	1.725630
n_t	1014.0	1.726560
n_s	852.1	1.730640
n_r	706.5	1.736270
n_C	656.3	1.739030
$n_{C'}$	643.8	1.739810
$n_{632.8}$	632.8	1.740540
n_D	589.3	1.743830
n_d	587.6	1.743970
n_e	546.1	1.747910
n_F	486.1	1.755620
$n_{F'}$	480.0	1.756590
n_g	435.8	1.765000
n_h	404.7	1.772980
n_i	365.0	1.787030
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.69	0.40
2325	0.86	0.69
1970	0.971	0.930
1530	0.996	0.990
1060	0.999	0.997
700	0.998	0.996
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.998	0.994
500	0.993	0.983
460	0.985	0.962
436	0.976	0.940
420	0.965	0.915
405	0.944	0.865
400	0.933	0.840
390	0.896	0.760
380	0.831	0.630
370	0.713	0.430
365	0.626	0.310
350	0.229	0.025
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2459
$P_{C,s}$	0.5057
$P_{d,C}$	0.2979
$P_{e,d}$	0.2377
$P_{g,F}$	0.5656
$P_{i,h}$	0.847
$P'_{s,t}$	0.2431
$P'_{C,s}$	0.5464
$P'_{d,C'}$	0.2481
$P'_{e,d}$	0.235
$P'_{g,F'}$	0.5012
$P'_{i,h}$	0.8373

Constants of Dispersion Formula	
B_1	1.80984227
B_2	0.15729555
B_3	1.0930037
C_1	0.0101711622
C_2	0.0442431765
C_3	100.687748

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0061
$\Delta P_{C,s}$	-0.0017
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0027
$\Delta P_{i,g}$	-0.0202

Constants of Dispersion dn/dT	
D_0	$-3.64 \cdot 10^{-6}$
D_1	$9.20 \cdot 10^{-9}$
D_2	$-6.00 \cdot 10^{-12}$
E_0	$6.43 \cdot 10^{-7}$
E_1	$6.11 \cdot 10^{-10}$
λ_{TK} [μm]	0.220

Color Code	
λ_{80}/λ_5	40/34
(*= λ_{70}/λ_5)	

Remarks

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.1
T_g [$^\circ\text{C}$]	653
$T_{10}^{13.0}$ [$^\circ\text{C}$]	645
$T_{10}^{7.6}$ [$^\circ\text{C}$]	742
c_p [J/(g·K)]	0.510
λ [W/(m·K)]	0.670
ρ [g/cm ³]	4.30
E [10^3 N/mm ²]	94
μ	0.288
K [10^{-6} mm ² /N]	1.42
$HK_{0.1/20}$	530
HG	6
B	1.00
CR	2
FR	3
SR	52.2
AR	1
PR	2.2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	0.0	1.0	2.1	-2.3	-1.3	-0.3
+20/ +40	-0.1	1.0	2.3	-1.6	-0.5	0.7
+60/ +80	-0.1	1.2	2.5	-1.2	0.0	1.3

N-LAF7
749348.373

$n_d = 1.74950$
 $n_e = 1.75459$

$v_d = 34.82$
 $v_e = 34.56$

$n_F - n_C = 0.021525$
 $n_{F'} - n_{C'} = 0.021833$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.703440
$n_{1970.1}$	1970.1	1.710210
$n_{1529.6}$	1529.6	1.717720
$n_{1060.0}$	1060.0	1.726590
n_t	1014.0	1.727730
n_s	852.1	1.732720
n_r	706.5	1.739720
n_C	656.3	1.743200
$n_{C'}$	643.8	1.744190
$n_{632.8}$	632.8	1.745110
n_D	589.3	1.749310
n_d	587.6	1.749500
n_e	546.1	1.754590
n_F	486.1	1.764720
$n_{F'}$	480.0	1.766020
n_g	435.8	1.777410
n_h	404.7	1.788540
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.68	0.38
2325	0.87	0.70
1970	0.976	0.940
1530	0.996	0.990
1060	0.998	0.996
700	0.997	0.992
660	0.995	0.988
620	0.994	0.985
580	0.992	0.980
546	0.988	0.970
500	0.971	0.930
460	0.937	0.850
436	0.901	0.770
420	0.857	0.680
405	0.782	0.540
400	0.752	0.490
390	0.657	0.350
380	0.515	0.190
370	0.302	0.050
365	0.170	0.012
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2317
$P_{C,s}$	0.487
$P_{d,C}$	0.2928
$P_{e,d}$	0.2366
$P_{g,F}$	0.5894
$P_{i,h}$	
$P'_{s,t}$	0.2284
$P'_{C,s}$	0.5254
$P'_{d,C'}$	0.2434
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5218
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0029
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0042
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	1.74028764
B_2	0.226710554
B_3	1.32525548
C_1	0.010792558
C_2	0.0538626639
C_3	106.268665

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.4
T_g [$^\circ\text{C}$]	568
$T_{10}^{13.0}$ [$^\circ\text{C}$]	563
$T_{10}^{7.6}$ [$^\circ\text{C}$]	669
c_p [J/(g·K)]	0.620
λ [W/(m·K)]	0.830

Constants of Dispersion dn/dT	
D_0	$9.21 \cdot 10^{-7}$
D_1	$1.10 \cdot 10^{-8}$
D_2	$-1.75 \cdot 10^{-11}$
E_0	$7.67 \cdot 10^{-7}$
E_1	$1.10 \cdot 10^{-9}$
λ_{TK} [μm]	0.264

Color Code	
λ_{80}/λ_5	46/36
(*= λ_{70}/λ_5)	

Remarks	

ρ [g/cm ³]	3.73
E [10^3 N/mm ²]	96
μ	0.271
K [10^{-6} mm ² /N]	2.57
$HK_{0.1/20}$	530
HG	5
B	1.00
CR	1
FR	2
SR	51.3
AR	1.2
PR	1.2

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	2.5	3.9	5.6	0.2	1.5	3.1
+20/ +40	2.6	4.3	6.3	1.1	2.7	4.7
+60/ +80	2.7	4.6	6.8	1.6	3.4	5.6

N-LAF21
788475.428

$n_d = 1.78800$	$v_d = 47.49$	$n_F - n_C = 0.016593$
$n_e = 1.79195$	$v_e = 47.25$	$n_F' - n_C' = 0.016761$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.744190
$n_{1970.1}$	1970.1	1.751910
$n_{1529.6}$	1529.6	1.760140
$n_{1060.0}$	1060.0	1.768920
n_t	1014.0	1.769950
n_s	852.1	1.774340
n_r	706.5	1.780190
n_C	656.3	1.783010
$n_{C'}$	643.8	1.783800
$n_{632.8}$	632.8	1.784540
n_D	589.3	1.787850
n_d	587.6	1.788000
n_e	546.1	1.791950
n_F	486.1	1.799600
$n_{F'}$	480.0	1.800560
n_g	435.8	1.808820
n_h	404.7	1.816570
n_i	365.0	1.830020
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.46	0.14
2325	0.75	0.49
1970	0.954	0.890
1530	0.992	0.981
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.996
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.995	0.988
460	0.989	0.973
436	0.983	0.958
420	0.976	0.940
405	0.959	0.900
400	0.950	0.880
390	0.924	0.820
380	0.882	0.730
370	0.804	0.580
365	0.746	0.480
350	0.480	0.160
334	0.130	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2646
$P_{C,s}$	0.5222
$P_{d,C}$	0.3009
$P_{e,d}$	0.238
$P_{g,F}$	0.5555
$P_{i,h}$	0.8106
$P'_{s,t}$	0.2619
$P'_{C,s}$	0.5641
$P'_{d,C'}$	0.2507
$P'_{e,d}$	0.2356
$P'_{g,F'}$	0.4927
$P'_{i,h}$	0.8025

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0165
$\Delta P_{C,s}$	0.0086
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	-0.0481

Constants of Dispersion Formula	
B_1	1.87134529
B_2	0.25078301
B_3	1.22048639
C_1	0.0093332228
C_2	0.0345637762
C_3	83.2404866

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.1
T_g [$^\circ\text{C}$]	653
$T_{10}^{13.0}$ [$^\circ\text{C}$]	659
$T_{10}^{7.6}$ [$^\circ\text{C}$]	729
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.830
ρ [g/cm ³]	4.28
E [10^3 N/mm ²]	124
μ	0.295
K [10^{-6} mm ² /N]	1.46
$HK_{0.1/20}$	730
HG	2
B	1.00
CR	1
FR	1
SR	51.3
AR	1
PR	1.3

Constants of Dispersion dn/dT	
D_0	$3.11 \cdot 10^{-6}$
D_1	$1.13 \cdot 10^{-8}$
D_2	$-2.07 \cdot 10^{-11}$
E_0	$5.88 \cdot 10^{-7}$
E_1	$6.32 \cdot 10^{-10}$
λ_{TK} [μm]	0.199

Color Code	
λ_{80}/λ_5	40/33
(* = λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.8	4.8	5.8	1.4	2.4	3.3
+20/ +40	3.9	5.1	6.2	2.3	3.5	4.6
+60/ +80	4.0	5.3	6.5	2.8	4.1	5.3

N-LAF33 786441.436

$n_d = 1.78582$
 $n_e = 1.79007$

$v_d = 44.05$
 $v_e = 43.80$

$n_F - n_C = 0.017839$
 $n_{F'} - n_{C'} = 0.018038$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.742620
$n_{1970.1}$	1970.1	1.749680
$n_{1529.6}$	1529.6	1.757320
$n_{1060.0}$	1060.0	1.765840
n_t	1014.0	1.766890
n_s	852.1	1.771380
n_r	706.5	1.777510
n_C	656.3	1.780490
$n_{C'}$	643.8	1.781340
$n_{632.8}$	632.8	1.782130
n_D	589.3	1.785670
n_d	587.6	1.785820
n_e	546.1	1.790070
n_F	486.1	1.798330
$n_{F'}$	480.0	1.799370
n_g	435.8	1.808370
n_h	404.7	1.816870
n_i	365.0	1.831750
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.79653417
B_2	0.311577903
B_3	1.15981863
C_1	0.00927313493
C_2	0.0358201181
C_3	87.3448712

Constants of Dispersion dn/dT	
D_0	$8.17 \cdot 10^{-6}$
D_1	$1.24 \cdot 10^{-8}$
D_2	$-1.65 \cdot 10^{-11}$
E_0	$7.11 \cdot 10^{-7}$
E_1	$8.59 \cdot 10^{-10}$
λ_{TK} [μm]	0.210

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	6.8	8.1	9.4	4.4	5.7	7.0
+20/ +40	7.0	8.5	10.0	5.5	6.9	8.4
+60/ +80	7.2	8.9	10.5	6.0	7.6	9.3

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.47	0.15
2325	0.75	0.48
1970	0.941	0.860
1530	0.988	0.970
1060	0.998	0.994
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.997	0.992
546	0.997	0.992
500	0.994	0.985
460	0.987	0.967
436	0.980	0.950
420	0.973	0.933
405	0.962	0.908
400	0.957	0.895
390	0.941	0.860
380	0.910	0.790
370	0.857	0.680
365	0.815	0.600
350	0.601	0.280
334	0.246	0.030
320	0.017	
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	39/32
(* = λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.252
$P_{C,s}$	0.5107
$P_{d,C}$	0.2988
$P_{e,d}$	0.2378
$P_{g,F}$	0.5626
$P_{i,h}$	0.8339
$P'_{s,t}$	0.2492
$P'_{C,s}$	0.5518
$P'_{d,C'}$	0.2488
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4987
$P'_{i,h}$	0.8247

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0088
$\Delta P_{C,s}$	0.0052
$\Delta P_{F,e}$	-0.0018
$\Delta P_{g,F}$	-0.0071
$\Delta P_{i,g}$	-0.0443

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	5.6
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	6.7
T_g [$^{\circ}C$]	600
$T_{10}^{13.0}$ [$^{\circ}C$]	585
$T_{10}^{7.6}$ [$^{\circ}C$]	673
c_p [J/(g·K)]	0.570
λ [W/(m·K)]	0.800
ρ [g/cm ³]	4.36
E [10^3 N/mm ²]	111
μ	0.301
K [10^{-6} mm ² /N]	2.21
$HK_{0.1/20}$	730
HG	1
B	0.00
CR	1
FR	2
SR	52.2
AR	1
PR	3

N-LAF34
773496.424

$n_d = 1.77250$
 $n_e = 1.77621$

$v_d = 49.62$
 $v_e = 49.38$

$n_F - n_C = 0.015568$
 $n_{F'} - n_{C'} = 0.015719$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.730850
$n_{1970.1}$	1970.1	1.738240
$n_{1529.6}$	1529.6	1.746100
$n_{1060.0}$	1060.0	1.754470
n_t	1014.0	1.755460
n_s	852.1	1.759620
n_r	706.5	1.765150
n_C	656.3	1.767800
$n_{C'}$	643.8	1.768550
$n_{632.8}$	632.8	1.769240
n_D	589.3	1.772360
n_d	587.6	1.772500
n_e	546.1	1.776210
n_F	486.1	1.783370
$n_{F'}$	480.0	1.784270
n_g	435.8	1.791960
n_h	404.7	1.799150
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.44	0.13
2325	0.73	0.46
1970	0.946	0.870
1530	0.990	0.975
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.996	0.991
460	0.992	0.980
436	0.987	0.967
420	0.981	0.953
405	0.971	0.930
400	0.967	0.920
390	0.950	0.880
380	0.919	0.810
370	0.867	0.700
365	0.831	0.630
350	0.634	0.320
334	0.250	0.030
320	0.010	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2674
$P_{C,s}$	0.5256
$P_{d,C}$	0.3018
$P_{e,d}$	0.2382
$P_{g,F}$	0.5518
$P_{i,h}$	
$P'_{s,t}$	0.2648
$P'_{C,s}$	0.5679
$P'_{d,C'}$	0.2515
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4895
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.75836958
B_2	0.313537785
B_3	1.18925231
C_1	0.00872810026
C_2	0.0293020832
C_3	85.1780644

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0126
$\Delta P_{C,s}$	0.007
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$3.89 \cdot 10^{-6}$
D_1	$1.02 \cdot 10^{-8}$
D_2	$-1.91 \cdot 10^{-11}$
E_0	$5.88 \cdot 10^{-7}$
E_1	$7.57 \cdot 10^{-10}$
λ_{TK} [μm]	0.181

Color Code	
λ_{80}/λ_5	39/32
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.0
T_g [$^\circ\text{C}$]	668
$T_{10}^{13.0}$ [$^\circ\text{C}$]	659
$T_{10}^{7.6}$ [$^\circ\text{C}$]	745
c_p [J/(g·K)]	0.800
λ [W/(m·K)]	0.560
ρ [g/cm ³]	4.24
E [10^3 N/mm ²]	123
μ	0.292
K [10^{-6} mm ² /N]	1.44
$HK_{0.1/20}$	770
HG	2
B	0.00
CR	1
FR	1
SR	51.3
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.2	5.2	6.2	1.9	2.8	3.7
+20/ +40	4.3	5.4	6.5	2.7	3.9	4.9
+60/ +80	4.4	5.6	6.8	3.2	4.4	5.5

N-LAF35 743494.412

$n_d = 1.74330$
 $n_e = 1.74688$

$v_d = 49.40$
 $v_e = 49.16$

$n_F - n_C = 0.015047$
 $n_{F'} - n_{C'} = 0.015194$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	
$n_{1970.1}$	1970.1	
$n_{1529.6}$	1529.6	
$n_{1060.0}$	1060.0	1.725880
n_t	1014.0	1.726830
n_s	852.1	1.730860
n_r	706.5	1.736200
n_C	656.3	1.738760
$n_{C'}$	643.8	1.739480
$n_{632.8}$	632.8	1.740150
n_D	589.3	1.743170
n_d	587.6	1.743300
n_e	546.1	1.746880
n_F	486.1	1.753810
$n_{F'}$	480.0	1.754670
n_g	435.8	1.762120
n_h	404.7	1.769080
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.40	0.10
2325	0.71	0.43
1970	0.937	0.850
1530	0.988	0.970
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.996
620	0.998	0.994
580	0.998	0.994
546	0.998	0.995
500	0.997	0.992
460	0.994	0.985
436	0.990	0.976
420	0.987	0.967
405	0.980	0.950
400	0.976	0.940
390	0.966	0.920
380	0.948	0.880
370	0.918	0.810
365	0.898	0.760
350	0.788	0.550
334	0.592	0.270
320	0.348	0.200
310	0.152	0.080
300	0.030	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2674
$P_{C,s}$	0.5253
$P_{d,C}$	0.3017
$P_{e,d}$	0.2381
$P_{g,F}$	0.5523
$P_{i,h}$	
$P'_{s,t}$	0.2648
$P'_{C,s}$	0.5676
$P'_{d,C'}$	0.2514
$P'_{e,d}$	0.2358
$P'_{g,F'}$	0.4899
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0134
$\Delta P_{C,s}$	0.0072
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	1.51697436
B_2	0.455875464
B_3	1.07469242
C_1	0.00750943203
C_2	0.0260046715
C_3	80.5945159

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.4
T_g [$^\circ\text{C}$]	589
$T_{10}^{13.0}$ [$^\circ\text{C}$]	585
$T_{10}^{7.6}$ [$^\circ\text{C}$]	669
c_p [J/(g·K)]	0.570
λ [W/(m·K)]	0.800
ρ [g/cm ³]	4.12
E [10^3 N/mm ²]	109
μ	0.301
K [10^{-6} mm ² /N]	2.29
$HK_{0.1/20}$	660
HG	2
B	0.00
CR	2
FR	1
SR	52.3
AR	1
PR	3.3

Constants of Dispersion dn/dT	
D_0	$8.98 \cdot 10^{-6}$
D_1	$1.26 \cdot 10^{-8}$
D_2	$-1.23 \cdot 10^{-11}$
E_0	$6.24 \cdot 10^{-7}$
E_1	$6.86 \cdot 10^{-10}$
λ_{TK} [μm]	0.194

Color Code	
λ_{80}/λ_5	38/30
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	7.0	8.1	9.2	4.7	5.7	6.7
+20/ +40	7.1	8.4	9.6	5.6	6.9	8.0
+60/ +80	7.3	8.7	10.0	6.2	7.5	8.8

N-LAF36 800424.443

$n_d = 1.79952$
 $n_e = 1.80400$

$v_d = 42.37$
 $v_e = 42.12$

$n_F - n_C = 0.018871$
 $n_{F'} - n_{C'} = 0.019090$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.755550
$n_{1970.1}$	1970.1	1.762460
$n_{1529.6}$	1529.6	1.770010
$n_{1060.0}$	1060.0	1.778620
n_t	1014.0	1.779690
n_s	852.1	1.784350
n_r	706.5	1.790760
n_C	656.3	1.793900
$n_{C'}$	643.8	1.794780
$n_{632.8}$	632.8	1.795610
n_D	589.3	1.799350
n_d	587.6	1.799520
n_e	546.1	1.804000
n_F	486.1	1.812770
$n_{F'}$	480.0	1.813870
n_g	435.8	1.823450
n_h	404.7	1.832520
n_i	365.0	1.848480
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.85744228
B_2	0.294098729
B_3	1.16615417
C_1	0.00982397191
C_2	0.0384309138
C_3	89.3984634

Constants of Dispersion dn/dT	
D_0	$8.72 \cdot 10^{-6}$
D_1	$1.12 \cdot 10^{-8}$
D_2	$-1.38 \cdot 10^{-11}$
E_0	$7.81 \cdot 10^{-7}$
E_1	$9.48 \cdot 10^{-10}$
λ_{TK} [μm]	0.212

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	7.3	8.8	10.3	4.9	6.4	7.8
+20/ +40	7.4	9.1	10.8	5.9	7.6	9.2
+60/ +80	7.6	9.5	11.3	6.4	8.2	10.1

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.48	0.16
2325	0.77	0.52
1970	0.950	0.880
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.994
660	0.998	0.994
620	0.997	0.992
580	0.997	0.992
546	0.996	0.990
500	0.992	0.980
460	0.985	0.962
436	0.976	0.940
420	0.967	0.920
405	0.954	0.890
400	0.946	0.870
390	0.919	0.810
380	0.872	0.710
370	0.793	0.560
365	0.733	0.460
350	0.455	0.140
334	0.068	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	40/33
(* = λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2467
$P_{C,s}$	0.5059
$P_{d,C}$	0.2979
$P_{e,d}$	0.2377
$P_{g,F}$	0.5659
$P_{i,h}$	0.8455
$P'_{s,t}$	0.2439
$P'_{C,s}$	0.5465
$P'_{d,C'}$	0.248
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5014
$P'_{i,h}$	0.8358

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0067
$\Delta P_{C,s}$	0.0043
$\Delta P_{F,e}$	-0.0016
$\Delta P_{g,F}$	-0.0067
$\Delta P_{i,g}$	-0.0424

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	5.7
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	6.8
T_g [$^{\circ}C$]	579
$T_{10}^{13.0}$ [$^{\circ}C$]	582
$T_{10}^{7.6}$ [$^{\circ}C$]	670
c_p [J/(g·K)]	0.540
λ [W/(m·K)]	0.790
ρ [g/cm ³]	4.43
E [10^3 N/mm ²]	110
μ	0.305
K [10^{-6} mm ² /N]	2.25
$HK_{0.1/20}$	680
HG	1
B	0.00
CR	1
FR	2
SR	52.3
AR	1
PR	3.3

N-LASF9 850322.441

$n_d = 1.85025$
 $n_e = 1.85650$

$v_d = 32.17$
 $v_e = 31.93$

$n_F - n_C = 0.026430$
 $n_{F'} - n_{C'} = 0.026827$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.800580
$n_{1970.1}$	1970.1	1.806590
$n_{1529.6}$	1529.6	1.813640
$n_{1060.0}$	1060.0	1.822930
n_t	1014.0	1.824200
n_s	852.1	1.829970
n_r	706.5	1.838340
n_C	656.3	1.842550
$n_{C'}$	643.8	1.843760
$n_{632.8}$	632.8	1.844890
n_D	589.3	1.850020
n_d	587.6	1.850250
n_e	546.1	1.856500
n_F	486.1	1.868980
$n_{F'}$	480.0	1.870580
n_g	435.8	1.884670
n_h	404.7	1.898450
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.86	0.68
2325	0.92	0.80
1970	0.978	0.947
1530	0.996	0.991
1060	0.998	0.996
700	0.995	0.987
660	0.994	0.984
620	0.993	0.982
580	0.992	0.981
546	0.990	0.975
500	0.980	0.950
460	0.959	0.900
436	0.933	0.840
420	0.901	0.770
405	0.831	0.630
400	0.799	0.570
390	0.693	0.400
380	0.525	0.200
370	0.270	0.040
365	0.137	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2181
$P_{C,s}$	0.4762
$P_{d,C}$	0.2912
$P_{e,d}$	0.2366
$P_{g,F}$	0.5934
$P_{i,h}$	
$P'_{s,t}$	0.2149
$P'_{C,s}$	0.514
$P'_{d,C'}$	0.242
$P'_{e,d}$	0.233
$P'_{g,F'}$	0.525
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0032
$\Delta P_{C,s}$	-0.0016
$\Delta P_{F,e}$	0.0008
$\Delta P_{g,F}$	0.0037
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	2.00029547
B_2	0.298926886
B_3	1.80691843
C_1	0.0121426017
C_2	0.0538736236
C_3	156.530829

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.4
T_g [$^\circ\text{C}$]	683
$T_{10}^{13.0}$ [$^\circ\text{C}$]	700
$T_{10}^{7.6}$ [$^\circ\text{C}$]	817
c_p [J/(g·K)]	0.530
λ [W/(m·K)]	0.790
ρ [g/cm ³]	4.41
E [10^3 N/mm ²]	109
μ	0.288
K [10^{-6} mm ² /N]	1.72
$HK_{0.1/20}$	515
HG	4
B	1.00
CR	1
FR	0
SR	2
AR	1
PR	1

Constants of Dispersion dn/dT	
D_0	$1.05 \cdot 10^{-6}$
D_1	$1.02 \cdot 10^{-8}$
D_2	$-2.38 \cdot 10^{-11}$
E_0	$9.19 \cdot 10^{-7}$
E_1	$1.18 \cdot 10^{-9}$
λ_{TK} [μm]	0.257

Color Code	
λ_{80}/λ_5	41/36*
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.8	4.7	6.9	0.4	2.2	4.3
+20/ +40	2.9	5.1	7.7	1.4	3.5	6.0
+60/ +80	3.1	5.5	8.2	1.8	4.2	6.9

N-LASF31A 883408.551

$n_d = 1.88300$
 $n_e = 1.88815$

$v_d = 40.76$
 $v_e = 40.52$

$n_F - n_C = 0.021663$
 $n_{F'} - n_{C'} = 0.021921$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.835900
$n_{1970.1}$	1970.1	1.842670
$n_{1529.6}$	1529.6	1.850260
$n_{1060.0}$	1060.0	1.859370
n_t	1014.0	1.860540
n_s	852.1	1.865720
n_r	706.5	1.872980
n_C	656.3	1.876560
$n_{C'}$	643.8	1.877570
$n_{632.8}$	632.8	1.878530
n_D	589.3	1.882810
n_d	587.6	1.883000
n_e	546.1	1.888150
n_F	486.1	1.898220
$n_{F'}$	480.0	1.899500
n_g	435.8	1.910500
n_h	404.7	1.920930
n_i	365.0	1.939200
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.96485075
B_2	0.475231259
B_3	1.48360109
C_1	0.00982060155
C_2	0.0344713438
C_3	110.739863

Constants of Dispersion dn/dT	
D_0	$1.67 \cdot 10^{-6}$
D_1	$8.90 \cdot 10^{-9}$
D_2	$-8.73 \cdot 10^{-12}$
E_0	$7.47 \cdot 10^{-7}$
E_1	$7.46 \cdot 10^{-10}$
λ_{TK} [μm]	0.207

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.4	4.8	6.3	0.9	2.3	3.7
+20/ +40	3.3	4.9	6.6	1.7	3.3	4.9
+60/ +80	3.4	5.2	6.9	2.2	3.9	5.6

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.63	0.32
2325	0.83	0.62
1970	0.959	0.900
1530	0.992	0.980
1060	0.996	0.991
700	0.996	0.989
660	0.995	0.988
620	0.994	0.986
580	0.995	0.988
546	0.994	0.986
500	0.988	0.970
460	0.974	0.937
436	0.963	0.910
420	0.950	0.880
405	0.933	0.840
400	0.924	0.820
390	0.891	0.750
380	0.842	0.650
370	0.764	0.510
365	0.707	0.420
350	0.468	0.150
334	0.123	
320	0.001	
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	38/33*
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2391
$P_{C,s}$	0.5004
$P_{d,C}$	0.2972
$P_{e,d}$	0.2377
$P_{g,F}$	0.5667
$P_{i,h}$	0.8436
$P'_{s,t}$	0.2363
$P'_{C,s}$	0.5407
$P'_{d,C'}$	0.2475
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5021
$P'_{i,h}$	0.8337

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0012
$\Delta P_{C,s}$	0.0025
$\Delta P_{F,e}$	-0.0019
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	-0.0575

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	6.7
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.7
T_g [$^{\circ}C$]	719
$T_{10}^{13.0}$ [$^{\circ}C$]	720
$T_{10}^{7.6}$ [$^{\circ}C$]	830
c_p [J/(g·K)]	0.440
λ [W/(m·K)]	0.790
ρ [g/cm ³]	5.51
E [10^3 N/mm ²]	126
μ	0.301
K [10^{-6} mm ² /N]	1.18
$HK_{0.1/20}$	650
HG	2
B	1.00
CR	1
FR	0
SR	2.3
AR	1
PR	1

N-LASF40 834373.443

$n_d = 1.83404$
 $n_e = 1.83935$

$v_d = 37.30$
 $v_e = 37.04$

$n_F - n_C = 0.022363$
 $n_{F'} - n_{C'} = 0.022658$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.786000
$n_{1970.1}$	1970.1	1.792980
$n_{1529.6}$	1529.6	1.800740
$n_{1060.0}$	1060.0	1.809990
n_t	1014.0	1.811180
n_s	852.1	1.816430
n_r	706.5	1.823800
n_C	656.3	1.827450
$n_{C'}$	643.8	1.828490
$n_{632.8}$	632.8	1.829460
n_D	589.3	1.833850
n_d	587.6	1.834040
n_e	546.1	1.839350
n_F	486.1	1.849810
$n_{F'}$	480.0	1.851140
n_g	435.8	1.862750
n_h	404.7	1.873930
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.98550331
B_2	0.274057042
B_3	1.28945661
C_1	0.010958331
C_2	0.0474551603
C_3	96.9085286

Constants of Dispersion dn/dT	
D_0	$8.10 \cdot 10^{-6}$
D_1	$1.25 \cdot 10^{-8}$
D_2	$-1.73 \cdot 10^{-11}$
E_0	$8.27 \cdot 10^{-7}$
E_1	$1.08 \cdot 10^{-9}$
λ_{TK} [μm]	0.238

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	7.1	8.8	10.6	4.6	6.3	8.0
+20/ +40	7.3	9.3	11.4	5.7	7.7	9.8
+60/ +80	7.6	9.7	12.0	6.3	8.5	10.8

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.56	0.24
2325	0.81	0.59
1970	0.963	0.910
1530	0.993	0.982
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.994
620	0.997	0.993
580	0.997	0.992
546	0.995	0.988
500	0.987	0.969
460	0.973	0.933
436	0.954	0.890
420	0.937	0.850
405	0.905	0.780
400	0.891	0.750
390	0.842	0.650
380	0.764	0.510
370	0.601	0.280
365	0.468	0.150
350	0.044	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	39/35*
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2346
$P_{C,s}$	0.4929
$P_{d,C}$	0.2948
$P_{e,d}$	0.2371
$P_{g,F}$	0.5786
$P_{i,h}$	
$P'_{s,t}$	0.2315
$P'_{C,s}$	0.5321
$P'_{d,C'}$	0.2453
$P'_{e,d}$	0.234
$P'_{g,F'}$	0.5124
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0055
$\Delta P_{C,s}$	0.003
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	5.8
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	6.9
T_g [$^{\circ}C$]	590
$T_{10}^{13.0}$ [$^{\circ}C$]	591
$T_{10}^{7.6}$ [$^{\circ}C$]	677
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.810
ρ [g/cm ³]	4.43
E [10^3 N/mm ²]	111
μ	0.304
K [10^{-6} mm ² /N]	2.19
$HK_{0.1/20}$	580
HG	1
B	0.00
CR	1
FR	1
SR	51.2
AR	1
PR	1.3

N-LASF41 835431.485

$n_d = 1.83501$
 $n_e = 1.83961$

$v_d = 43.13$
 $v_e = 42.88$

$n_F - n_C = 0.019361$
 $n_{F'} - n_{C'} = 0.019578$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.788590
$n_{1970.1}$	1970.1	1.796080
$n_{1529.6}$	1529.6	1.804230
$n_{1060.0}$	1060.0	1.813380
n_t	1014.0	1.814500
n_s	852.1	1.819360
n_r	706.5	1.825990
n_C	656.3	1.829230
$n_{C'}$	643.8	1.830140
$n_{632.8}$	632.8	1.831000
n_D	589.3	1.834840
n_d	587.6	1.835010
n_e	546.1	1.839610
n_F	486.1	1.848590
$n_{F'}$	480.0	1.849720
n_g	435.8	1.859490
n_h	404.7	1.868720
n_i	365.0	1.884860
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.86348331
B_2	0.413307255
B_3	1.35784815
C_1	0.00910368219
C_2	0.0339247268
C_3	93.3580595

Constants of Dispersion dn/dT	
D_0	$3.03 \cdot 10^{-6}$
D_1	$1.04 \cdot 10^{-8}$
D_2	$-1.30 \cdot 10^{-11}$
E_0	$6.62 \cdot 10^{-7}$
E_1	$7.82 \cdot 10^{-10}$
λ_{TK} [μm]	0.209

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.0	5.2	6.4	1.5	2.7	3.9
+20/ +40	4.0	5.4	6.8	2.4	3.8	5.2
+60/ +80	4.2	5.7	7.2	2.9	4.5	6.0

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.48	0.16
2325	0.76	0.51
1970	0.950	0.880
1530	0.993	0.983
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.997	0.993
500	0.994	0.984
460	0.985	0.962
436	0.976	0.940
420	0.967	0.920
405	0.954	0.890
400	0.948	0.876
390	0.928	0.830
380	0.891	0.750
370	0.831	0.630
365	0.787	0.550
350	0.592	0.270
334	0.292	0.040
320	0.040	
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	37/32*
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2508
$P_{C,s}$	0.5098
$P_{d,C}$	0.2986
$P_{e,d}$	0.2378
$P_{g,F}$	0.5629
$P_{i,h}$	0.8338
$P'_{s,t}$	0.248
$P'_{C,s}$	0.5507
$P'_{d,C'}$	0.2487
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4989
$P'_{i,h}$	0.8245

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.011
$\Delta P_{C,s}$	0.0063
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0083
$\Delta P_{i,g}$	-0.052

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	6.2
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.3
T_g [$^{\circ}C$]	651
$T_{10}^{13.0}$ [$^{\circ}C$]	658
$T_{10}^{7.6}$ [$^{\circ}C$]	739
c_p [J/(g·K)]	0.490
λ [W/(m·K)]	0.790
ρ [g/cm ³]	4.85
E [10^3 N/mm ²]	124
μ	0.294
K [10^{-6} mm ² /N]	1.57
$HK_{0.1/20}$	760
HG	2
B	0.00
CR	1
FR	1
SR	4
AR	1
PR	1

N-LASF43 806406.426

$n_d = 1.80610$	$v_d = 40.61$	$n_F - n_C = 0.019850$
$n_e = 1.81081$	$v_e = 40.36$	$n_F' - n_C' = 0.020089$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.759010
$n_{1970.1}$	1970.1	1.766620
$n_{1529.6}$	1529.6	1.774880
$n_{1060.0}$	1060.0	1.784130
n_t	1014.0	1.785270
n_s	852.1	1.790180
n_r	706.5	1.796910
n_C	656.3	1.800200
$n_{C'}$	643.8	1.801130
$n_{632.8}$	632.8	1.802000
n_D	589.3	1.805930
n_d	587.6	1.806100
n_e	546.1	1.810810
n_F	486.1	1.820050
$n_{F'}$	480.0	1.821220
n_g	435.8	1.831370
n_h	404.7	1.841060
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.40	0.10
2325	0.71	0.43
1970	0.937	0.850
1530	0.984	0.960
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.997	0.993
580	0.996	0.991
546	0.995	0.988
500	0.990	0.975
460	0.980	0.950
436	0.967	0.920
420	0.954	0.890
405	0.933	0.840
400	0.919	0.810
390	0.882	0.730
380	0.821	0.610
370	0.707	0.420
365	0.618	0.300
350	0.221	0.020
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2476
$P_{C,s}$	0.5049
$P_{d,C}$	0.2972
$P_{e,d}$	0.2374
$P_{g,F}$	0.5703
$P_{i,h}$	
$P'_{s,t}$	0.2446
$P'_{C,s}$	0.5452
$P'_{d,C'}$	0.2473
$P'_{e,d}$	0.2346
$P'_{g,F'}$	0.5053
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.93502827
B_2	0.23662935
B_3	1.26291344
C_1	0.0104001413
C_2	0.0447505292
C_3	87.437569

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0149
$\Delta P_{C,s}$	0.0073
$\Delta P_{F,e}$	-0.0016
$\Delta P_{g,F}$	-0.0052
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$4.77 \cdot 10^{-6}$
D_1	$1.14 \cdot 10^{-8}$
D_2	$-2.68 \cdot 10^{-12}$
E_0	$6.62 \cdot 10^{-7}$
E_1	$8.84 \cdot 10^{-10}$
λ_{TK} [μm]	0.234

Color Code	
λ_{80}/λ_5	42/34
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.7
T_g [$^\circ\text{C}$]	614
$T_{10}^{13.0}$ [$^\circ\text{C}$]	615
$T_{10}^{7.6}$ [$^\circ\text{C}$]	699
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.810
ρ [g/cm ³]	4.26
E [10^3 N/mm ²]	114
μ	0.290
K [10^{-6} mm ² /N]	1.92
$HK_{0.1/20}$	720
HG	2
B	1.00
CR	1
FR	1
SR	51.3
AR	1
PR	2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.9	6.2	7.6	2.5	3.8	5.0
+20/ +40	5.0	6.5	8.1	3.4	4.9	6.4
+60/ +80	5.2	6.9	8.6	4.0	5.6	7.4

N-LASF44 804465.444

$n_d = 1.80420$
 $n_e = 1.80832$

$v_d = 46.50$
 $v_e = 46.25$

$n_F - n_C = 0.017294$
 $n_{F'} - n_{C'} = 0.017476$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.760700
$n_{1970.1}$	1970.1	1.768010
$n_{1529.6}$	1529.6	1.775900
$n_{1060.0}$	1060.0	1.784550
n_t	1014.0	1.785600
n_s	852.1	1.790060
n_r	706.5	1.796090
n_C	656.3	1.799010
$n_{C'}$	643.8	1.799830
$n_{632.8}$	632.8	1.800600
n_D	589.3	1.804050
n_d	587.6	1.804200
n_e	546.1	1.808320
n_F	486.1	1.816300
$n_{F'}$	480.0	1.817310
n_g	435.8	1.825940
n_h	404.7	1.834050
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.78897105
B_2	0.38675867
B_3	1.30506243
C_1	0.00872506277
C_2	0.0308085023
C_3	92.7743824

Constants of Dispersion dn/dT	
D_0	$3.32 \cdot 10^{-6}$
D_1	$1.12 \cdot 10^{-8}$
D_2	$-8.52 \cdot 10^{-12}$
E_0	$5.88 \cdot 10^{-7}$
E_1	$7.13 \cdot 10^{-10}$
λ_{TK} [μm]	0.209

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.0	5.1	6.1	1.6	2.6	3.6
+20/ +40	4.0	5.3	6.5	2.5	3.7	4.9
+60/ +80	4.2	5.6	6.9	3.0	4.4	5.7

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.47	0.15
2325	0.74	0.47
1970	0.946	0.870
1530	0.990	0.975
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.996	0.989
460	0.991	0.977
436	0.986	0.965
420	0.980	0.950
405	0.967	0.920
400	0.963	0.910
390	0.946	0.870
380	0.911	0.793
370	0.860	0.685
365	0.823	0.615
350	0.658	0.351
334	0.378	0.088
320	0.152	
310	0.068	
300	0.030	
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	40/31
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2582
$P_{C,s}$	0.5171
$P_{d,C}$	0.3002
$P_{e,d}$	0.238
$P_{g,F}$	0.5572
$P_{i,h}$	
$P'_{s,t}$	0.2555
$P'_{C,s}$	0.5588
$P'_{d,C'}$	0.2501
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4941
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0098
$\Delta P_{C,s}$	0.0058
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	6.2
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.4
T_g [$^{\circ}C$]	655
$T_{10}^{13.0}$ [$^{\circ}C$]	659
$T_{10}^{7.6}$ [$^{\circ}C$]	742
c_p [J/(g·K)]	0.530
λ [W/(m·K)]	0.820
ρ [g/cm ³]	4.44
E [10^3 N/mm ²]	124
μ	0.293
K [10^{-6} mm ² /N]	1.41
$HK_{0.1/20}$	770
HG	2
B	0.00
CR	1
FR	1
SR	4
AR	1
PR	1

N-LASF45 801350.363

$n_d = 1.80107$	$v_d = 34.97$	$n_F - n_C = 0.022905$
$n_e = 1.80650$	$v_e = 34.72$	$n_F' - n_C' = 0.023227$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.754870
$n_{1970.1}$	1970.1	1.761040
$n_{1529.6}$	1529.6	1.768090
$n_{1060.0}$	1060.0	1.776890
n_t	1014.0	1.778050
n_s	852.1	1.783250
n_r	706.5	1.790660
n_C	656.3	1.794360
$n_{C'}$	643.8	1.795410
$n_{632.8}$	632.8	1.796400
n_D	589.3	1.800870
n_d	587.6	1.801070
n_e	546.1	1.806500
n_F	486.1	1.817260
$n_{F'}$	480.0	1.818640
n_g	435.8	1.830680
n_h	404.7	1.842370
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.85	0.67
2325	0.93	0.83
1970	0.985	0.962
1530	0.997	0.992
1060	0.997	0.993
700	0.997	0.992
660	0.995	0.987
620	0.994	0.984
580	0.994	0.986
546	0.993	0.982
500	0.983	0.958
460	0.965	0.915
436	0.946	0.870
420	0.924	0.820
405	0.877	0.720
400	0.857	0.680
390	0.787	0.550
380	0.672	0.370
370	0.576	0.150
365	0.336	0.060
350	0.012	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2268
$P_{C,s}$	0.4849
$P_{d,C}$	0.293
$P_{e,d}$	0.2368
$P_{g,F}$	0.5859
$P_{i,h}$	
$P'_{s,t}$	0.2237
$P'_{C,s}$	0.5235
$P'_{d,C'}$	0.2437
$P'_{e,d}$	0.2336
$P'_{g,F'}$	0.5186
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.87140198
B_2	0.267777879
B_3	1.73030008
C_1	0.011217192
C_2	0.0505134972
C_3	147.106505

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0009
$\Delta P_{C,s}$	0.0005
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0009
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$2.78 \cdot 10^{-6}$
D_1	$8.73 \cdot 10^{-9}$
D_2	$-2.65 \cdot 10^{-11}$
E_0	$8.24 \cdot 10^{-7}$
E_1	$1.15 \cdot 10^{-9}$
λ_{TK} [μm]	0.255

Color Code	
λ_{80}/λ_5	44/35
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.6
T_g [$^\circ\text{C}$]	647
$T_{10}^{13.0}$ [$^\circ\text{C}$]	652
$T_{10}^{7.6}$ [$^\circ\text{C}$]	773
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	1.020
ρ [g/cm ³]	3.63
E [10^3 N/mm ²]	116
μ	0.281
K [10^{-6} mm ² /N]	2.01
$HK_{0.1/20}$	630
HG	3
B	0.00
CR	1
FR	0
SR	3.2
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.8	5.4	7.3	1.4	3.0	4.7
+20/ +40	3.8	5.7	7.9	2.3	4.1	6.2
+60/ +80	3.8	5.9	8.3	2.6	4.7	7.0

P-LASF47 806409.454

$n_d = 1.80610$
 $n_e = 1.81078$

$v_d = 40.90$
 $v_e = 40.66$

$n_F - n_C = 0.019709$
 $n_{F'} - n_{C'} = 0.019941$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.760400
$n_{1970.1}$	1970.1	1.767550
$n_{1529.6}$	1529.6	1.775380
$n_{1060.0}$	1060.0	1.784320
n_t	1014.0	1.785440
n_s	852.1	1.790280
n_r	706.5	1.796960
n_C	656.3	1.800230
$n_{C'}$	643.8	1.801160
$n_{632.8}$	632.8	1.802030
n_D	589.3	1.805930
n_d	587.6	1.806100
n_e	546.1	1.810780
n_F	486.1	1.819940
$n_{F'}$	480.0	1.821100
n_g	435.8	1.831120
n_h	404.7	1.840640
n_i	365.0	1.857390
$n_{334.1}$	334.1	1.876320
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.85543101
B_2	0.315854649
B_3	1.28561839
C_1	0.0100328203
C_2	0.0387095168
C_3	94.5421507

Constants of Dispersion dn/dT	
D_0	$7.87 \cdot 10^{-6}$
D_1	$1.09 \cdot 10^{-8}$
D_2	$-1.56 \cdot 10^{-11}$
E_0	$7.58 \cdot 10^{-7}$
E_1	$8.92 \cdot 10^{-10}$
λ_{TK} [μm]	0.218

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	6.8	8.3	9.8	4.5	5.9	7.3
+20/ +40	6.9	8.6	10.3	5.4	7.0	8.7
+60/ +80	7.1	8.9	10.8	5.9	7.7	9.5

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.53	0.20
2325	0.78	0.53
1970	0.950	0.880
1530	0.992	0.981
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.995	0.988
460	0.990	0.975
436	0.985	0.963
420	0.980	0.950
405	0.971	0.930
400	0.967	0.920
390	0.954	0.890
380	0.928	0.830
370	0.877	0.720
365	0.842	0.650
350	0.657	0.350
334	0.250	0.030
320	0.012	
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	39/33
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding

Relative Partial Dispersion	
$P_{s,t}$	0.2459
$P_{C,s}$	0.5049
$P_{d,C}$	0.2976
$P_{e,d}$	0.2376
$P_{g,F}$	0.5671
$P_{i,h}$	0.8502
$P'_{s,t}$	0.243
$P'_{C,s}$	0.5453
$P'_{d,C'}$	0.2478
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5025
$P'_{i,h}$	0.8403

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0117
$\Delta P_{C,s}$	0.0066
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0079
$\Delta P_{i,g}$	-0.0482

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	6.0
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	7.3
T_g [$^{\circ}C$]	530
$T_{10}^{13.0}$ [$^{\circ}C$]	532
$T_{10}^{7.6}$ [$^{\circ}C$]	627
c_p [J/(g·K)]	0.550
λ [W/(m·K)]	0.850
ρ [g/cm ³]	4.54
E [10^3 N/mm ²]	120
μ	0.298
K [10^{-6} mm ² /N]	2.39
$HK_{0.1/20}$	620
HG	2
B	1.00
CR	1
FR	1
SR	51.4
AR	1
PR	2.2

N-SF1 717296.303

$n_d = 1.71736$
 $n_e = 1.72308$

$v_d = 29.62$
 $v_e = 29.39$

$n_F - n_C = 0.024219$
 $n_{F'} - n_{C'} = 0.024606$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.670210
$n_{1970.1}$	1970.1	1.676410
$n_{1529.6}$	1529.6	1.683500
$n_{1060.0}$	1060.0	1.692400
n_t	1014.0	1.693580
n_s	852.1	1.698890
n_r	706.5	1.706510
n_C	656.3	1.710350
$n_{C'}$	643.8	1.711440
$n_{632.8}$	632.8	1.712470
n_D	589.3	1.717150
n_d	587.6	1.717360
n_e	546.1	1.723080
n_F	486.1	1.734570
$n_{F'}$	480.0	1.736050
n_g	435.8	1.749190
n_h	404.7	1.762240
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.60865158
B_2	0.237725916
B_3	1.51530653
C_1	0.0119654879
C_2	0.0590589722
C_3	135.521676

Constants of Dispersion dn/dT	
D_0	$-3.72 \cdot 10^{-6}$
D_1	$8.05 \cdot 10^{-9}$
D_2	$-1.71 \cdot 10^{-11}$
E_0	$8.98 \cdot 10^{-7}$
E_1	$1.34 \cdot 10^{-9}$
λ_{TK} [μm]	0.276

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	0.1	1.7	3.6	-2.2	-0.7	1.2
+20/ +40	0.0	1.8	4.2	-1.5	0.3	2.7
+60/ +80	0.0	2.1	4.8	-1.1	0.9	3.5

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.73	0.46
2325	0.80	0.58
1970	0.937	0.850
1530	0.989	0.973
1060	0.998	0.995
700	0.996	0.990
660	0.994	0.986
620	0.995	0.987
580	0.996	0.990
546	0.994	0.986
500	0.987	0.968
460	0.976	0.940
436	0.963	0.910
420	0.946	0.870
405	0.896	0.760
400	0.867	0.700
390	0.770	0.520
380	0.574	0.250
370	0.252	0.030
365	0.096	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	41/36
(* = λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.219
$P_{C,s}$	0.4733
$P_{d,C}$	0.2895
$P_{e,d}$	0.236
$P_{g,F}$	0.6037
$P_{i,h}$	
$P'_{s,t}$	0.2156
$P'_{C,s}$	0.5103
$P'_{d,C'}$	0.2405
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.534
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0068
$\Delta P_{C,s}$	0.0013
$\Delta P_{F,e}$	0.0016
$\Delta P_{g,F}$	0.0097
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	9.1
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	10.5
T_g [$^{\circ}C$]	553
$T_{10}^{13.0}$ [$^{\circ}C$]	554
$T_{10}^{7.6}$ [$^{\circ}C$]	660
c_p [J/(g·K)]	0.750
λ [W/(m·K)]	1.000
ρ [g/cm ³]	3.03
E [10^3 N/mm ²]	90
μ	0.250
K [10^{-6} mm ² /N]	2.72
$HK_{0.1/20}$	540
HG	5
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

N-SF4 755274.315

$n_d = 1.75513$
 $n_e = 1.76164$

$v_d = 27.38$
 $v_e = 27.16$

$n_F - n_C = 0.027583$
 $n_{F'} - n_{C'} = 0.028044$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.704340
$n_{1970.1}$	1970.1	1.710520
$n_{1529.6}$	1529.6	1.717730
$n_{1060.0}$	1060.0	1.727170
n_t	1014.0	1.728460
n_s	852.1	1.734320
n_r	706.5	1.742860
n_C	656.3	1.747190
$n_{C'}$	643.8	1.748420
$n_{632.8}$	632.8	1.749590
n_D	589.3	1.754890
n_d	587.6	1.755130
n_e	546.1	1.761640
n_F	486.1	1.774770
$n_{F'}$	480.0	1.776470
n_g	435.8	1.791580
n_h	404.7	1.806680
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.67780282
B_2	0.282849893
B_3	1.63539276
C_1	0.012679345
C_2	0.0602038419
C_3	145.760496

Constants of Dispersion dn/dT	
D_0	$-4.88 \cdot 10^{-6}$
D_1	$6.57 \cdot 10^{-9}$
D_2	$-2.72 \cdot 10^{-11}$
E_0	$9.67 \cdot 10^{-7}$
E_1	$1.48 \cdot 10^{-9}$
λ_{TK} [μm]	0.282

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-0.5	1.2	3.5	-2.9	-1.2	1.0
+20/ +40	-0.7	1.4	4.2	-2.2	-0.1	2.6
+60/ +80	-0.8	1.6	4.7	-1.9	0.4	3.5

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.90	0.77
2325	0.92	0.82
1970	0.976	0.940
1530	0.997	0.993
1060	0.999	0.997
700	0.995	0.988
660	0.993	0.983
620	0.993	0.983
580	0.993	0.983
546	0.990	0.976
500	0.978	0.945
460	0.959	0.900
436	0.933	0.840
420	0.896	0.760
405	0.821	0.610
400	0.787	0.550
390	0.672	0.370
380	0.455	0.140
370	0.152	
365	0.044	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	44/37
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2123
$P_{C,s}$	0.4666
$P_{d,C}$	0.288
$P_{e,d}$	0.2358
$P_{g,F}$	0.6096
$P_{i,h}$	
$P'_{s,t}$	0.2088
$P'_{C,s}$	0.503
$P'_{d,C'}$	0.2392
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.539
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.004
$\Delta P_{C,s}$	-0.0002
$\Delta P_{F,e}$	0.0022
$\Delta P_{g,F}$	0.0118
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	9.5
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	10.9
T_g [$^{\circ}C$]	570
$T_{10}^{13.0}$ [$^{\circ}C$]	559
$T_{10}^{7.6}$ [$^{\circ}C$]	661
c_p [J/(g·K)]	0.760
λ [W/(m·K)]	0.950
ρ [g/cm ³]	3.15
E [10^3 N/mm ²]	90
μ	0.256
K [10^{-6} mm ² /N]	2.76
$HK_{0.1/20}$	520
HG	6
B	1.00
CR	1
FR	0
SR	1.3
AR	1
PR	1

N-SF5
673323.286

$n_d = 1.67271$	$v_d = 32.25$	$n_F - n_C = 0.020858$
$n_e = 1.67763$	$v_e = 32.00$	$n_F' - n_C' = 0.021177$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.629350
$n_{1970.1}$	1970.1	1.635540
$n_{1529.6}$	1529.6	1.642490
$n_{1060.0}$	1060.0	1.650800
n_t	1014.0	1.651880
n_s	852.1	1.656610
n_r	706.5	1.663300
n_C	656.3	1.666640
$n_{C'}$	643.8	1.667590
$n_{632.8}$	632.8	1.668480
n_D	589.3	1.672530
n_d	587.6	1.672710
n_e	546.1	1.677630
n_F	486.1	1.687500
$n_{F'}$	480.0	1.688760
n_g	435.8	1.699980
n_h	404.7	1.711060
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.76	0.50
2325	0.83	0.63
1970	0.950	0.880
1530	0.990	0.975
1060	0.998	0.994
700	0.996	0.989
660	0.995	0.987
620	0.995	0.988
580	0.996	0.991
546	0.995	0.988
500	0.990	0.976
460	0.982	0.956
436	0.973	0.935
420	0.963	0.910
405	0.928	0.830
400	0.905	0.780
390	0.826	0.620
380	0.642	0.330
370	0.276	0.040
365	0.116	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.227
$P_{C,s}$	0.4807
$P_{d,C}$	0.291
$P_{e,d}$	0.2362
$P_{g,F}$	0.5984
$P_{i,h}$	
$P'_{s,t}$	0.2236
$P'_{C,s}$	0.5184
$P'_{d,C'}$	0.2418
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5295
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.52481889
B_2	0.187085527
B_3	1.42729015
C_1	0.011254756
C_2	0.0588995392
C_3	129.141675

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0097
$\Delta P_{C,s}$	0.0027
$\Delta P_{F,e}$	0.0014
$\Delta P_{g,F}$	0.0088
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-2.51 \cdot 10^{-7}$
D_1	$1.07 \cdot 10^{-8}$
D_2	$-2.40 \cdot 10^{-11}$
E_0	$7.85 \cdot 10^{-7}$
E_1	$1.15 \cdot 10^{-9}$
λ_{TK} [μm]	0.278

Color Code	
λ_{80}/λ_5	40/36
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.2
T_g [$^\circ\text{C}$]	578
$T_{10}^{13.0}$ [$^\circ\text{C}$]	576
$T_{10}^{7.6}$ [$^\circ\text{C}$]	693
c_p [J/(g·K)]	0.770
λ [W/(m·K)]	1.000
ρ [g/cm ³]	2.86
E [10^3 N/mm ²]	87
μ	0.237
K [10^{-6} mm ² /N]	2.99
$HK_{0.1/20}$	620
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.8	3.1	4.8	-0.5	0.8	2.5
+20/ +40	1.8	3.4	5.5	0.4	2.0	4.0
+60/ +80	1.9	3.7	6.0	0.8	2.5	4.8

N-SF6
805254.337

$n_d = 1.80518$
 $n_e = 1.81266$

$v_d = 25.36$
 $v_e = 25.16$

$n_F - n_C = 0.031750$
 $n_{F'} - n_{C'} = 0.032304$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.748950
$n_{1970.1}$	1970.1	1.755410
$n_{1529.6}$	1529.6	1.763070
$n_{1060.0}$	1060.0	1.773410
n_t	1014.0	1.774860
n_s	852.1	1.781440
n_r	706.5	1.791140
n_C	656.3	1.796080
$n_{C'}$	643.8	1.797490
$n_{632.8}$	632.8	1.798830
n_D	589.3	1.804910
n_d	587.6	1.805180
n_e	546.1	1.812660
n_F	486.1	1.827830
$n_{F'}$	480.0	1.829800
n_g	435.8	1.847380
n_h	404.7	1.865060
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.77931763
B_2	0.338149866
B_3	2.08734474
C_1	0.0133714182
C_2	0.0617533621
C_3	174.01759

Constants of Dispersion dn/dT	
D_0	$-4.93 \cdot 10^{-6}$
D_1	$7.02 \cdot 10^{-9}$
D_2	$-2.40 \cdot 10^{-11}$
E_0	$9.84 \cdot 10^{-7}$
E_1	$1.54 \cdot 10^{-9}$
λ_{TK} [μm]	0.290

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-0.7	1.2	3.9	-3.0	-1.2	1.3
+20/ +40	-0.8	1.5	4.8	-2.3	0.0	3.1
+60/ +80	-0.8	1.8	5.4	-2.0	0.6	4.1

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.78	0.53
2325	0.81	0.59
1970	0.941	0.860
1530	0.991	0.978
1060	0.998	0.996
700	0.993	0.983
660	0.991	0.977
620	0.991	0.978
580	0.992	0.980
546	0.989	0.972
500	0.977	0.943
460	0.961	0.905
436	0.946	0.870
420	0.919	0.810
405	0.857	0.680
400	0.821	0.610
390	0.700	0.410
380	0.480	0.160
370	0.158	0.010
365	0.040	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	45/37
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2074
$P_{C,s}$	0.461
$P_{d,C}$	0.2867
$P_{e,d}$	0.2356
$P_{g,F}$	0.6158
$P_{i,h}$	
$P'_{s,t}$	0.2039
$P'_{C,s}$	0.4969
$P'_{d,C'}$	0.238
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5443
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0031
$\Delta P_{C,s}$	-0.001
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.0146
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	9.0
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	10.3
T_g [$^{\circ}C$]	589
$T_{10}^{13.0}$ [$^{\circ}C$]	590
$T_{10}^{7.6}$ [$^{\circ}C$]	683
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.960
ρ [g/cm ³]	3.37
E [10^3 N/mm ²]	93
μ	0.262
K [10^{-6} mm ² /N]	2.82
$HK_{0.1/20}$	550
HG	4
B	0.00
CR	1
FR	0
SR	2
AR	1
PR	1

N-SF6HT 805254.337

$n_d = 1.80518$
 $n_e = 1.81266$

$v_d = 25.36$
 $v_e = 25.16$

$n_F - n_C = 0.031750$
 $n_{F'} - n_{C'} = 0.032304$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.748950
$n_{1970.1}$	1970.1	1.755410
$n_{1529.6}$	1529.6	1.763070
$n_{1060.0}$	1060.0	1.773410
n_t	1014.0	1.774860
n_s	852.1	1.781440
n_r	706.5	1.791140
n_C	656.3	1.796080
$n_{C'}$	643.8	1.797490
$n_{632.8}$	632.8	1.798830
n_D	589.3	1.804910
n_d	587.6	1.805180
n_e	546.1	1.812660
n_F	486.1	1.827830
$n_{F'}$	480.0	1.829800
n_g	435.8	1.847380
n_h	404.7	1.865060
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.77931763
B_2	0.338149866
B_3	2.08734474
C_1	0.0133714182
C_2	0.0617533621
C_3	174.01759

Constants of Dispersion dn/dT	
D_0	$-4.93 \cdot 10^{-6}$
D_1	$7.02 \cdot 10^{-9}$
D_2	$-2.40 \cdot 10^{-11}$
E_0	$9.84 \cdot 10^{-7}$
E_1	$1.54 \cdot 10^{-9}$
λ_{TK} [μm]	0.290

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	-0.7	1.2	3.9	-3.0	-1.2	1.3
+20/ +40	-0.8	1.5	4.8	-2.3	0.0	3.1
+60/ +80	-0.8	1.8	5.4	-2.0	0.6	4.1

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.79	0.56
2325	0.83	0.62
1970	0.946	0.870
1530	0.992	0.980
1060	0.999	0.997
700	0.994	0.984
660	0.991	0.978
620	0.992	0.979
580	0.992	0.981
546	0.990	0.975
500	0.980	0.950
460	0.966	0.917
436	0.954	0.890
420	0.937	0.850
405	0.901	0.770
400	0.877	0.720
390	0.793	0.560
380	0.592	0.270
370	0.170	0.020
365	0.040	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	44/37
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2074
$P_{C,s}$	0.461
$P_{d,C}$	0.2867
$P_{e,d}$	0.2356
$P_{g,F}$	0.6158
$P_{i,h}$	
$P'_{s,t}$	0.2039
$P'_{C,s}$	0.4969
$P'_{d,C'}$	0.238
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5443
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0031
$\Delta P_{C,s}$	-0.001
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.0146
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/K$]	9.0
$\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/K$]	10.3
T_g [$^{\circ}\text{C}$]	589
$T_{10}^{13.0}$ [$^{\circ}\text{C}$]	590
$T_{10}^{7.6}$ [$^{\circ}\text{C}$]	683
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.960
ρ [g/cm ³]	3.37
E [10^3 N/mm ²]	93
μ	0.262
K [10^{-6} mm ² /N]	2.82
$HK_{0.1/20}$	550
HG	4
B	0.00
CR	1
FR	0
SR	2
AR	1
PR	1

N-SF8
689313.290

$n_d = 1.68894$	$v_d = 31.31$	$n_F - n_C = 0.022005$
$n_e = 1.69413$	$v_e = 31.06$	$n_F' - n_C' = 0.022346$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.644480
$n_{1970.1}$	1970.1	1.650600
$n_{1529.6}$	1529.6	1.657530
$n_{1060.0}$	1060.0	1.666000
n_t	1014.0	1.667110
n_s	852.1	1.672030
n_r	706.5	1.679040
n_C	656.3	1.682540
$n_{C'}$	643.8	1.683540
$n_{632.8}$	632.8	1.684480
n_D	589.3	1.688740
n_d	587.6	1.688940
n_e	546.1	1.694130
n_F	486.1	1.704550
$n_{F'}$	480.0	1.705890
n_g	435.8	1.717750
n_h	404.7	1.729480
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.75	0.48
2325	0.81	0.60
1970	0.946	0.870
1530	0.988	0.970
1060	0.997	0.993
700	0.995	0.987
660	0.993	0.983
620	0.993	0.983
580	0.994	0.986
546	0.993	0.983
500	0.985	0.963
460	0.976	0.940
436	0.965	0.914
420	0.950	0.880
405	0.919	0.810
400	0.901	0.770
390	0.831	0.630
380	0.672	0.370
370	0.345	0.070
365	0.158	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2236
$P_{C,s}$	0.4778
$P_{d,C}$	0.2905
$P_{e,d}$	0.2362
$P_{g,F}$	0.5999
$P_{i,h}$	
$P'_{s,t}$	0.2202
$P'_{C,s}$	0.5152
$P'_{d,C'}$	0.2413
$P'_{e,d}$	0.2326
$P'_{g,F'}$	0.5308
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.55075812
B_2	0.209816918
B_3	1.46205491
C_1	0.0114338344
C_2	0.0582725652
C_3	133.24165

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.008
$\Delta P_{C,s}$	0.0019
$\Delta P_{F,e}$	0.0014
$\Delta P_{g,F}$	0.0087
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-1.94 \cdot 10^{-6}$
D_1	$9.70 \cdot 10^{-9}$
D_2	$-2.34 \cdot 10^{-11}$
E_0	$8.32 \cdot 10^{-7}$
E_1	$1.15 \cdot 10^{-9}$
λ_{TK} [μm]	0.276

Color Code	
λ_{80}/λ_5	41/36
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.9
T_g [$^\circ\text{C}$]	567
$T_{10}^{13.0}$ [$^\circ\text{C}$]	564
$T_{10}^{7.6}$ [$^\circ\text{C}$]	678
c_p [J/(g·K)]	0.770
λ [W/(m·K)]	1.030
ρ [g/cm ³]	2.90
E [10^3 N/mm ²]	88
μ	0.245
K [10^{-6} mm ² /N]	2.95
$HK_{0.1/20}$	600
HG	4
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.0	2.4	4.2	-1.3	0.1	1.8
+20/ +40	0.9	2.6	4.8	-0.5	1.2	3.3
+60/ +80	1.0	2.9	5.3	-0.1	1.7	4.1

N-SF10 728285.305

$n_d = 1.72828$
 $n_e = 1.73430$

$v_d = 28.53$
 $v_e = 28.31$

$n_F - n_C = 0.025524$
 $n_{F'} - n_{C'} = 0.025941$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.679810
$n_{1970.1}$	1970.1	1.685970
$n_{1529.6}$	1529.6	1.693080
$n_{1060.0}$	1060.0	1.702170
n_t	1014.0	1.703400
n_s	852.1	1.708910
n_r	706.5	1.716880
n_C	656.3	1.720910
$n_{C'}$	643.8	1.722060
$n_{632.8}$	632.8	1.723140
n_D	589.3	1.728060
n_d	587.6	1.728280
n_e	546.1	1.734300
n_F	486.1	1.746430
$n_{F'}$	480.0	1.748000
n_g	435.8	1.761910
n_h	404.7	1.775780
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.62153902
B_2	0.256287842
B_3	1.64447552
C_1	0.0122241457
C_2	0.0595736775
C_3	147.468793

Constants of Dispersion dn/dT	
D_0	$-4.68 \cdot 10^{-6}$
D_1	$7.41 \cdot 10^{-9}$
D_2	$-1.89 \cdot 10^{-11}$
E_0	$9.49 \cdot 10^{-7}$
E_1	$1.42 \cdot 10^{-9}$
λ_{TK} [μm]	0.279

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-0.4	1.3	3.4	-2.7	-1.1	1.0
+20/ +40	-0.5	1.5	4.1	-2.0	-0.1	2.5
+60/ +80	-0.5	1.7	4.6	-1.7	0.5	3.4

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.85	0.66
2325	0.90	0.76
1970	0.971	0.930
1530	0.994	0.985
1060	0.996	0.990
700	0.993	0.983
660	0.990	0.976
620	0.991	0.977
580	0.991	0.978
546	0.989	0.973
500	0.978	0.945
460	0.963	0.910
436	0.946	0.870
420	0.924	0.820
405	0.867	0.700
400	0.837	0.640
390	0.727	0.450
380	0.525	0.200
370	0.176	
365	0.058	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	42/36
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.216
$P_{C,s}$	0.4701
$P_{d,C}$	0.2888
$P_{e,d}$	0.2359
$P_{g,F}$	0.6066
$P_{i,h}$	
$P'_{s,t}$	0.2125
$P'_{C,s}$	0.5068
$P'_{d,C'}$	0.2398
$P'_{e,d}$	0.2321
$P'_{g,F'}$	0.5365
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0057
$\Delta P_{C,s}$	0.0007
$\Delta P_{F,e}$	0.0019
$\Delta P_{g,F}$	0.0108
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	9.4
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	10.8
T_g [$^{\circ}C$]	559
$T_{10}^{13.0}$ [$^{\circ}C$]	549
$T_{10}^{7.6}$ [$^{\circ}C$]	652
c_p [J/(g·K)]	0.740
λ [W/(m·K)]	0.960
ρ [g/cm ³]	3.05
E [10^3 N/mm ²]	87
μ	0.252
K [10^{-6} mm ² /N]	2.92
$HK_{0.1/20}$	540
HG	5
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

N-SF11
785257.322

$n_d = 1.78472$	$v_d = 25.68$	$n_F - n_C = 0.030558$
$n_e = 1.79192$	$v_e = 25.47$	$n_F' - n_C' = 0.031088$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.729370
$n_{1970.1}$	1970.1	1.736000
$n_{1529.6}$	1529.6	1.743770
$n_{1060.0}$	1060.0	1.754010
n_t	1014.0	1.755420
n_s	852.1	1.761820
n_r	706.5	1.771190
n_C	656.3	1.775960
$n_{C'}$	643.8	1.777320
$n_{632.8}$	632.8	1.778600
n_D	589.3	1.784460
n_d	587.6	1.784720
n_e	546.1	1.791920
n_F	486.1	1.806510
$n_{F'}$	480.0	1.808410
n_g	435.8	1.825330
n_h	404.7	1.842350
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.83	0.62
2325	0.87	0.70
1970	0.965	0.915
1530	0.994	0.985
1060	0.999	0.998
700	0.994	0.985
660	0.992	0.981
620	0.992	0.981
580	0.994	0.984
546	0.991	0.978
500	0.981	0.953
460	0.967	0.920
436	0.946	0.870
420	0.919	0.810
405	0.852	0.670
400	0.815	0.600
390	0.686	0.390
380	0.428	0.120
370	0.083	0.002
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2095
$P_{C,s}$	0.4625
$P_{d,C}$	0.2868
$P_{e,d}$	0.2355
$P_{g,F}$	0.6156
$P_{i,h}$	
$P'_{s,t}$	0.2059
$P'_{C,s}$	0.4984
$P'_{d,C'}$	0.2381
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5442
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.73759695
B_2	0.313747346
B_3	1.89878101
C_1	0.013188707
C_2	0.0623068142
C_3	155.23629

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0052
$\Delta P_{C,s}$	-0.0003
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.015
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-3.56 \cdot 10^{-6}$
D_1	$9.20 \cdot 10^{-9}$
D_2	$-2.10 \cdot 10^{-11}$
E_0	$9.65 \cdot 10^{-7}$
E_1	$1.44 \cdot 10^{-9}$
λ_{TK} [μm]	0.294

Color Code	
λ_{80}/λ_5	44/37
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.9
T_g [$^\circ\text{C}$]	592
$T_{10}^{13.0}$ [$^\circ\text{C}$]	590
$T_{10}^{7.6}$ [$^\circ\text{C}$]	688
c_p [J/(g·K)]	0.710
λ [W/(m·K)]	0.950
ρ [g/cm ³]	3.22
E [10^3 N/mm ²]	92
μ	0.257
K [10^{-6} mm ² /N]	2.94
$HK_{0.1/20}$	615
HG	4
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	0.1	2.0	4.6	-2.3	-0.5	2.1
+20/ +40	0.1	2.4	5.6	-1.4	0.8	4.0
+60/ +80	0.2	2.7	6.3	-1.0	1.5	5.1

N-SF14 762265.312

$n_d = 1.76182$
 $n_e = 1.76859$

$v_d = 26.53$
 $v_e = 26.32$

$n_F - n_C = 0.028715$
 $n_{F'} - n_{C'} = 0.029204$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.709540
$n_{1970.1}$	1970.1	1.715810
$n_{1529.6}$	1529.6	1.723150
$n_{1060.0}$	1060.0	1.732840
n_t	1014.0	1.734170
n_s	852.1	1.740220
n_r	706.5	1.749070
n_C	656.3	1.753560
$n_{C'}$	643.8	1.754850
$n_{632.8}$	632.8	1.756060
n_D	589.3	1.761570
n_d	587.6	1.761820
n_e	546.1	1.768590
n_F	486.1	1.782280
$n_{F'}$	480.0	1.784050
n_g	435.8	1.799860
n_h	404.7	1.815700
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.80	0.57
2325	0.84	0.64
1970	0.950	0.880
1530	0.992	0.980
1060	0.999	0.998
700	0.994	0.985
660	0.991	0.978
620	0.992	0.980
580	0.994	0.984
546	0.992	0.981
500	0.984	0.960
460	0.971	0.930
436	0.963	0.910
420	0.946	0.870
405	0.910	0.790
400	0.891	0.750
390	0.821	0.610
380	0.642	0.330
370	0.276	0.040
365	0.095	0.004
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2107
$P_{C,s}$	0.4646
$P_{d,C}$	0.2875
$P_{e,d}$	0.2357
$P_{g,F}$	0.6122
$P_{i,h}$	
$P'_{s,t}$	0.2072
$P'_{C,s}$	0.5008
$P'_{d,C'}$	0.2387
$P'_{e,d}$	0.2318
$P'_{g,F'}$	0.5413
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0044
$\Delta P_{C,s}$	-0.0002
$\Delta P_{F,e}$	0.0024
$\Delta P_{g,F}$	0.013
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	1.69022361
B_2	0.288870052
B_3	1.7045187
C_1	0.0130512113
C_2	0.061369188
C_3	149.517689

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	10.9
T_g [$^\circ\text{C}$]	566
$T_{10}^{13.0}$ [$^\circ\text{C}$]	562
$T_{10}^{7.6}$ [$^\circ\text{C}$]	657
c_p [J/(g·K)]	0.750
λ [W/(m·K)]	1.000
ρ [g/cm ³]	3.12
E [10^3 N/mm ²]	88
μ	0.259
K [10^{-6} mm ² /N]	2.89
$HK_{0.1/20}$	515
HG	5
B	0.00
CR	1
FR	0
SR	1
AR	1
PR	1

Constants of Dispersion dn/dT	
D_0	$-5.56 \cdot 10^{-6}$
D_1	$7.09 \cdot 10^{-9}$
D_2	$-1.09 \cdot 10^{-11}$
E_0	$9.85 \cdot 10^{-7}$
E_1	$1.39 \cdot 10^{-9}$
λ_{TK} [μm]	0.287

Color Code	
λ_{80}/λ_5	42/36
(*= λ_{70}/λ_5)	

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	-0.9	0.9	3.4	-3.2	-1.5	0.9
+20/ +40	-1.1	1.1	4.1	-2.6	-0.4	2.5
+60/ +80	-1.1	1.4	4.7	-2.2	0.2	3.4

N-SF15
699302.292

$n_d = 1.69892$	$v_d = 30.20$	$n_F - n_C = 0.023142$
$n_e = 1.70438$	$v_e = 29.96$	$n_F' - n_C' = 0.023511$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.652670
$n_{1970.1}$	1970.1	1.658990
$n_{1529.6}$	1529.6	1.666160
$n_{1060.0}$	1060.0	1.674940
n_t	1014.0	1.676090
n_s	852.1	1.681220
n_r	706.5	1.688540
n_C	656.3	1.692220
$n_{C'}$	643.8	1.693260
$n_{632.8}$	632.8	1.694250
n_D	589.3	1.698720
n_d	587.6	1.698920
n_e	546.1	1.704380
n_F	486.1	1.715360
$n_{F'}$	480.0	1.716770
n_g	435.8	1.729330
n_h	404.7	1.741820
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.76	0.51
2325	0.84	0.64
1970	0.954	0.890
1530	0.990	0.976
1060	0.998	0.996
700	0.995	0.988
660	0.993	0.983
620	0.994	0.984
580	0.994	0.986
546	0.994	0.985
500	0.988	0.970
460	0.977	0.943
436	0.964	0.912
420	0.941	0.860
405	0.887	0.740
400	0.857	0.680
390	0.746	0.480
380	0.525	0.200
370	0.158	0.010
365	0.044	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2216
$P_{C,s}$	0.4751
$P_{d,C}$	0.2897
$P_{e,d}$	0.236
$P_{g,F}$	0.6038
$P_{i,h}$	
$P'_{s,t}$	0.2181
$P'_{C,s}$	0.5122
$P'_{d,C'}$	0.2406
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5341
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.57055634
B_2	0.218987094
B_3	1.50824017
C_1	0.0116507014
C_2	0.0597856897
C_3	132.709339

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0018
$\Delta P_{F,e}$	0.0018
$\Delta P_{g,F}$	0.0108
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-7.15 \cdot 10^{-7}$
D_1	$1.04 \cdot 10^{-8}$
D_2	$-2.62 \cdot 10^{-11}$
E_0	$8.56 \cdot 10^{-7}$
E_1	$1.29 \cdot 10^{-9}$
λ_{TK} [μm]	0.281

Color Code	
λ_{80}/λ_5	42/37
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.3
T_g [$^\circ\text{C}$]	580
$T_{10}^{13.0}$ [$^\circ\text{C}$]	578
$T_{10}^{7.6}$ [$^\circ\text{C}$]	692
c_p [J/(g·K)]	0.760
λ [W/(m·K)]	1.040
ρ [g/cm ³]	2.92
E [10^3 N/mm ²]	90
μ	0.243
K [10^{-6} mm ² /N]	3.04
$HK_{0.1/20}$	610
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	1.6	3.1	5.0	-0.7	0.8	2.6
+20/ +40	1.6	3.4	5.8	0.2	2.0	4.3
+60/ +80	1.7	3.7	6.4	0.6	2.6	5.2

N-SF56
785261.328

$n_d = 1.78470$
 $n_e = 1.79179$

$v_d = 26.10$
 $v_e = 25.89$

$n_F - n_C = 0.030071$
 $n_{F'} - n_{C'} = 0.030587$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.730100
$n_{1970.1}$	1970.1	1.736640
$n_{1529.6}$	1529.6	1.744310
$n_{1060.0}$	1060.0	1.754420
n_t	1014.0	1.755810
n_s	852.1	1.762130
n_r	706.5	1.771370
n_C	656.3	1.776070
$n_{C'}$	643.8	1.777410
$n_{632.8}$	632.8	1.778680
n_D	589.3	1.784440
n_d	587.6	1.784700
n_e	546.1	1.791790
n_F	486.1	1.806140
$n_{F'}$	480.0	1.808000
n_g	435.8	1.824600
n_h	404.7	1.841260
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.81	0.59
2325	0.86	0.68
1970	0.959	0.900
1530	0.992	0.981
1060	0.998	0.996
700	0.994	0.986
660	0.992	0.981
620	0.992	0.981
580	0.993	0.983
546	0.990	0.976
500	0.980	0.950
460	0.963	0.910
436	0.941	0.860
420	0.905	0.780
405	0.837	0.640
400	0.799	0.570
390	0.672	0.370
380	0.442	0.130
370	0.109	
365	0.020	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2101
$P_{C,s}$	0.4635
$P_{d,C}$	0.2872
$P_{e,d}$	0.2356
$P_{g,F}$	0.6139
$P_{i,h}$	
$P'_{s,t}$	0.2065
$P'_{C,s}$	0.4996
$P'_{d,C'}$	0.2384
$P'_{e,d}$	0.2316
$P'_{g,F'}$	0.5427
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.73562085
B_2	0.317487012
B_3	1.95398203
C_1	0.0129624742
C_2	0.0612884288
C_3	161.559441

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0048
$\Delta P_{C,s}$	-0.0002
$\Delta P_{F,e}$	0.0026
$\Delta P_{g,F}$	0.014
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-4.13 \cdot 10^{-6}$
D_1	$7.65 \cdot 10^{-9}$
D_2	$-1.12 \cdot 10^{-11}$
E_0	$9.90 \cdot 10^{-7}$
E_1	$1.57 \cdot 10^{-9}$
λ_{TK} [μm]	0.287

Color Code	
λ_{80}/λ_5	44/37
(*= λ_{70}/λ_5)	

Remarks	
Will become inquiry glass as of May 2008	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.7
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	10.0
T_g [$^\circ\text{C}$]	592
$T_{10}^{13.0}$ [$^\circ\text{C}$]	585
$T_{10}^{7.6}$ [$^\circ\text{C}$]	691
c_p [J/(g·K)]	0.700
λ [W/(m·K)]	0.940
ρ [g/cm ³]	3.28
E [10^3 N/mm ²]	91
μ	0.255
K [10^{-6} mm ² /N]	2.87
$HK_{0.1/20}$	560
HG	5
θ_B	1.00
CR	1
FR	0
SR	1
AR	1.3
PR	1

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	-0.1	1.7	4.3	-2.5	-0.7	1.8
+20/ +40	-0.3	2.0	5.1	-1.8	0.5	3.5
+60/ +80	-0.2	2.4	5.9	-1.4	1.2	4.6

N-SF57
847238.353

$n_d = 1.84666$	$v_d = 23.78$	$n_F - n_C = 0.035604$
$n_e = 1.85504$	$v_e = 23.59$	$n_F' - n_C' = 0.036247$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.785020
$n_{1970.1}$	1970.1	1.791900
$n_{1529.6}$	1529.6	1.800110
$n_{1060.0}$	1060.0	1.811380
n_t	1014.0	1.812960
n_s	852.1	1.820230
n_r	706.5	1.830990
n_C	656.3	1.836500
$n_{C'}$	643.8	1.838070
$n_{632.8}$	632.8	1.839560
n_D	589.3	1.846350
n_d	587.6	1.846660
n_e	546.1	1.855040
n_F	486.1	1.872100
$n_{F'}$	480.0	1.874320
n_g	435.8	1.894230
n_h	404.7	1.914400
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.84	0.65
2325	0.87	0.71
1970	0.963	0.910
1530	0.994	0.985
1060	0.999	0.997
700	0.991	0.977
660	0.987	0.969
620	0.988	0.971
580	0.990	0.975
546	0.986	0.965
500	0.971	0.930
460	0.949	0.877
436	0.919	0.810
420	0.872	0.710
405	0.782	0.540
400	0.733	0.460
390	0.574	0.250
380	0.302	0.050
370	0.063	0.001
365	0.003	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2042
$P_{C,s}$	0.4568
$P_{d,C}$	0.2855
$P_{e,d}$	0.2353
$P_{g,F}$	0.6216
$P_{i,h}$	
$P'_{s,t}$	0.2005
$P'_{C,s}$	0.4922
$P'_{d,C'}$	0.2369
$P'_{e,d}$	0.2311
$P'_{g,F'}$	0.5493
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.87543831
B_2	0.37375749
B_3	2.30001797
C_1	0.0141749518
C_2	0.0640509927
C_3	177.389795

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0032
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	0.0033
$\Delta P_{g,F}$	0.0178
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-4.51 \cdot 10^{-6}$
D_1	$8.73 \cdot 10^{-9}$
D_2	$-1.64 \cdot 10^{-11}$
E_0	$1.07 \cdot 10^{-6}$
E_1	$1.57 \cdot 10^{-9}$
λ_{TK} [μm]	0.295

Color Code	
λ_{80}/λ_5	42/37*
(*= λ_{70}/λ_5)	

Remarks

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.9
T_g [$^\circ\text{C}$]	629
$T_{10}^{13.0}$ [$^\circ\text{C}$]	616
$T_{10}^{7.6}$ [$^\circ\text{C}$]	716
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	0.990
ρ [g/cm ³]	3.53
E [10^3 N/mm ²]	96
μ	0.260
K [10^{-6} mm ² /N]	2.78
$HK_{0.1/20}$	520
HG	4
B	0.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	-0.5	1.7	4.9	-2.9	-0.8	2.3
+20/ +40	-0.5	2.2	6.0	-2.1	0.6	4.3
+60/ +80	-0.4	2.6	6.9	-1.6	1.3	5.6

N-SF57HT 847238.353

$n_d = 1.84666$	$v_d = 23.78$	$n_F - n_C = 0.035604$
$n_e = 1.85504$	$v_e = 23.59$	$n_F' - n_C' = 0.036247$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.785020
$n_{1970.1}$	1970.1	1.791900
$n_{1529.6}$	1529.6	1.800110
$n_{1060.0}$	1060.0	1.811380
n_t	1014.0	1.812960
n_s	852.1	1.820230
n_r	706.5	1.830990
n_C	656.3	1.836500
$n_{C'}$	643.8	1.838070
$n_{632.8}$	632.8	1.839560
n_D	589.3	1.846350
n_d	587.6	1.846660
n_e	546.1	1.855040
n_F	486.1	1.872100
$n_{F'}$	480.0	1.874320
n_g	435.8	1.894230
n_h	404.7	1.914400
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.87	0.70
2325	0.89	0.75
1970	0.971	0.930
1530	0.995	0.988
1060	0.999	0.998
700	0.992	0.979
660	0.988	0.971
620	0.989	0.973
580	0.991	0.977
546	0.987	0.967
500	0.972	0.932
460	0.951	0.883
436	0.928	0.830
420	0.896	0.760
405	0.831	0.630
400	0.793	0.560
390	0.657	0.350
380	0.382	0.090
370	0.063	0.001
365	0.003	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2042
$P_{C,s}$	0.4568
$P_{d,C}$	0.2855
$P_{e,d}$	0.2353
$P_{g,F}$	0.6216
$P_{i,h}$	
$P'_{s,t}$	0.2005
$P'_{C,s}$	0.4922
$P'_{d,C'}$	0.2369
$P'_{e,d}$	0.2311
$P'_{g,F'}$	0.5493
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.87543831
B_2	0.37375749
B_3	2.30001797
C_1	0.0141749518
C_2	0.0640509927
C_3	177.389795

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0032
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	0.0033
$\Delta P_{g,F}$	0.0178
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-4.51 \cdot 10^{-6}$
D_1	$8.73 \cdot 10^{-9}$
D_2	$-1.64 \cdot 10^{-11}$
E_0	$1.07 \cdot 10^{-6}$
E_1	$1.57 \cdot 10^{-9}$
λ_{TK} [μm]	0.295

Color Code	
λ_{80}/λ_5	41/37*
(*= λ_{70}/λ_5)	

Remarks

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.9
T_g [$^\circ\text{C}$]	629
$T_{10}^{13.0}$ [$^\circ\text{C}$]	616
$T_{10}^{7.6}$ [$^\circ\text{C}$]	716
c_p [J/(g·K)]	0.660
λ [W/(m·K)]	0.990
ρ [g/cm ³]	3.53
E [10^3 N/mm ²]	96
μ	0.260
K [10^{-6} mm ² /N]	2.78
$HK_{0.1/20}$	520
HG	4
B	0.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	-0.5	1.7	4.9	-2.9	-0.8	2.3
+20/ +40	-0.5	2.2	6.0	-2.1	0.6	4.3
+60/ +80	-0.4	2.6	6.9	-1.6	1.3	5.6

N-SF64
706302.299

$n_d = 1.70591$	$v_d = 30.23$	$n_F - n_C = 0.023350$
$n_e = 1.71142$	$v_e = 29.99$	$n_F' - n_C' = 0.023720$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.659930
$n_{1970.1}$	1970.1	1.666070
$n_{1529.6}$	1529.6	1.673060
$n_{1060.0}$	1060.0	1.681760
n_t	1014.0	1.682910
n_s	852.1	1.688060
n_r	706.5	1.695440
n_C	656.3	1.699140
$n_{C'}$	643.8	1.700200
$n_{632.8}$	632.8	1.701190
n_D	589.3	1.705710
n_d	587.6	1.705910
n_e	546.1	1.711420
n_F	486.1	1.722490
$n_{F'}$	480.0	1.723920
n_g	435.8	1.736570
n_h	404.7	1.749120
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.77	0.52
2325	0.84	0.64
1970	0.950	0.880
1530	0.992	0.979
1060	0.998	0.996
700	0.994	0.985
660	0.992	0.980
620	0.992	0.981
580	0.994	0.984
546	0.993	0.982
500	0.984	0.961
460	0.971	0.930
436	0.957	0.895
420	0.934	0.843
405	0.882	0.730
400	0.852	0.670
390	0.746	0.480
380	0.546	0.220
370	0.209	0.020
365	0.078	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2204
$P_{C,s}$	0.4746
$P_{d,C}$	0.2898
$P_{e,d}$	0.2361
$P_{g,F}$	0.6028
$P_{i,h}$	
$P'_{s,t}$	0.2169
$P'_{C,s}$	0.5117
$P'_{d,C'}$	0.2407
$P'_{e,d}$	0.2324
$P'_{g,F'}$	0.5333
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.59163762
B_2	0.219908428
B_3	1.46929315
C_1	0.0118623434
C_2	0.0594585499
C_3	133.310762

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0066
$\Delta P_{C,s}$	0.0012
$\Delta P_{F,e}$	0.0017
$\Delta P_{g,F}$	0.0099
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-2.06 \cdot 10^{-6}$
D_1	$9.78 \cdot 10^{-9}$
D_2	$-1.67 \cdot 10^{-11}$
E_0	$8.67 \cdot 10^{-7}$
E_1	$1.23 \cdot 10^{-9}$
λ_{TK} [μm]	0.279

Color Code	
λ_{80}/λ_5	42/37
(*= λ_{70}/λ_5)	

Remarks
Will become inquiry glass as of May 2008

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	8.5
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	9.8
T_g [$^\circ C$]	572
$T_{10}^{13.0}$ [$^\circ C$]	576
$T_{10}^{7.6}$ [$^\circ C$]	688
c_p [J/(g·K)]	0.750
λ [W/(m·K)]	0.980
ρ [g/cm ³]	2.99
E [10^3 N/mm ²]	88
μ	0.245
K [10^{-6} mm ² /N]	2.95
$HK_{0.1/20}$	620
HG	4
θ_B	1.00
CR	1
FR	0
SR	1
AR	1.2
PR	1

Temperature Coefficients of Refractive Index						
[$^\circ C$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	0.9	2.4	4.4	-1.3	0.1	2.0
+20/ +40	0.9	2.7	5.1	-0.6	1.2	3.5
+60/ +80	1.0	3.0	5.6	-0.1	1.9	4.4

N-SF66
923209.400

$n_d = 1.92286$	$v_d = 20.88$	$n_F - n_C = 0.044199$
$n_e = 1.93322$	$v_e = 20.70$	$n_F' - n_C' = 0.045076$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.848390
$n_{1970.1}$	1970.1	1.856650
$n_{1529.6}$	1529.6	1.866500
$n_{1060.0}$	1060.0	1.879990
n_t	1014.0	1.881890
n_s	852.1	1.890640
n_r	706.5	1.903680
n_C	656.3	1.910390
$n_{C'}$	643.8	1.912320
$n_{632.8}$	632.8	1.914140
n_D	589.3	1.922480
n_d	587.6	1.922860
n_e	546.1	1.933220
n_F	486.1	1.954590
$n_{F'}$	480.0	1.957390
n_g	435.8	1.982850
n_h	404.7	
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.79	0.56
2325	0.84	0.64
1970	0.947	0.873
1530	0.989	0.973
1060	0.996	0.991
700	0.991	0.977
660	0.987	0.968
620	0.983	0.958
580	0.976	0.940
546	0.963	0.910
500	0.928	0.830
460	0.887	0.740
436	0.831	0.630
420	0.758	0.500
405	0.592	0.270
400	0.504	0.180
390	0.250	0.020
380	0.040	
370	0.001	
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.198
$P_{C,s}$	0.4467
$P_{d,C}$	0.2822
$P_{e,d}$	0.2345
$P_{g,F}$	0.6394
$P_{i,h}$	
$P'_{s,t}$	0.1941
$P'_{C,s}$	0.4808
$P'_{d,C'}$	0.2339
$P'_{e,d}$	0.2299
$P'_{g,F'}$	0.5647
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	2.0245976
B_2	0.470187196
B_3	2.59970433
C_1	0.0147053225
C_2	0.0692998276
C_3	161.817601

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0007
$\Delta P_{C,s}$	-0.0048
$\Delta P_{F,e}$	0.0059
$\Delta P_{g,F}$	0.0307
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$-4.30 \cdot 10^{-6}$
D_1	$1.15 \cdot 10^{-8}$
D_2	$4.31 \cdot 10^{-11}$
E_0	$9.62 \cdot 10^{-7}$
E_1	$1.62 \cdot 10^{-9}$
λ_{TK} [μm]	0.322

Color Code	
λ_{80}/λ_5	45/39*
(*= λ_{70}/λ_5)	

Remarks

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.8
T_g [$^\circ\text{C}$]	710
$T_{10}^{13.0}$ [$^\circ\text{C}$]	711
$T_{10}^{7.6}$ [$^\circ\text{C}$]	806
c_p [J/(g·K)]	0.540
λ [W/(m·K)]	0.800
ρ [g/cm ³]	4.00
E [10^3 N/mm ²]	95
μ	0.259
K [10^{-6} mm ² /N]	2.86
$HK_{0.1/20}$	440
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	-0.4	1.9	5.8	-2.9	-0.7	3.1
+20/ +40	-0.5	2.4	7.3	-2.1	0.8	5.5
+60/ +80	0.1	3.4	8.9	-1.2	2.1	7.5

P-SF67
907214.424

$n_d = 1.90680$	$v_d = 21.40$	$n_F - n_C = 0.042374$
$n_e = 1.91675$	$v_e = 21.23$	$n_F' - n_C' = 0.043191$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.834790
$n_{1970.1}$	1970.1	1.842800
$n_{1529.6}$	1529.6	1.852350
$n_{1060.0}$	1060.0	1.865430
n_t	1014.0	1.867270
n_s	852.1	1.875740
n_r	706.5	1.888330
n_C	656.3	1.894800
$n_{C'}$	643.8	1.896660
$n_{632.8}$	632.8	1.898410
n_D	589.3	1.906440
n_d	587.6	1.906800
n_e	546.1	1.916750
n_F	486.1	1.937170
$n_{F'}$	480.0	1.939850
n_g	435.8	1.964010
n_h	404.7	
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.93	0.84
2325	0.95	0.87
1970	0.984	0.960
1530	0.994	0.985
1060	0.994	0.985
700	0.983	0.958
660	0.981	0.952
620	0.978	0.946
580	0.971	0.930
546	0.954	0.890
500	0.901	0.770
460	0.810	0.590
436	0.707	0.420
420	0.574	0.250
405	0.364	0.080
400	0.276	0.040
390	0.090	
380	0.011	
370		
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.1998
$P_{C,s}$	0.4498
$P_{d,C}$	0.2832
$P_{e,d}$	0.2348
$P_{g,F}$	0.6334
$P_{i,h}$	
$P'_{s,t}$	0.196
$P'_{C,s}$	0.4843
$P'_{d,C'}$	0.2349
$P'_{e,d}$	0.2303
$P'_{g,F'}$	0.5595
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0031
$\Delta P_{C,s}$	-0.003
$\Delta P_{F,e}$	0.0049
$\Delta P_{g,F}$	0.0256
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	1.97464225
B_2	0.467095921
B_3	2.43154209
C_1	0.0145772324
C_2	0.0669790359
C_3	157.444895

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.4
T_g [$^\circ\text{C}$]	539
$T_{10}^{13.0}$ [$^\circ\text{C}$]	546
$T_{10}^{7.6}$ [$^\circ\text{C}$]	663
c_p [J/(g·K)]	0.530
λ [W/(m·K)]	0.790

Constants of Dispersion dn/dT	
D_0	$4.82 \cdot 10^{-7}$
D_1	$1.15 \cdot 10^{-8}$
D_2	$-9.95 \cdot 10^{-12}$
E_0	$1.15 \cdot 10^{-6}$
E_1	$1.65 \cdot 10^{-9}$
λ_{TK} [μm]	0.315

Color Code	
λ_{80}/λ_5	48/39*
(* = λ_{70}/λ_5)	

Remarks
suitable for precision molding

ρ [g/cm ³]	4.24
E [10^3 N/mm ²]	90
μ	0.248
K [10^{-6} mm ² /N]	2.96
$HK_{0.1/20}$	440
HG	3
B	1.00
CR	1
FR	0
SR	1
AR	1.3
PR	1

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	2.6	5.5	10.1	0.1	2.9	7.4
+20/ +40	2.8	6.3	11.7	1.2	4.6	10.0
+60/ +80	3.1	7.0	13.0	1.9	5.7	11.7

SF1
717295.446

$n_d = 1.71736$	$v_d = 29.51$	$n_F - n_C = 0.024307$
$n_e = 1.72310$	$v_e = 29.29$	$n_F' - n_C' = 0.024687$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.673520
$n_{1970.1}$	1970.1	1.678550
$n_{1529.6}$	1529.6	1.684490
$n_{1060.0}$	1060.0	1.692580
n_t	1014.0	1.693710
n_s	852.1	1.698880
n_r	706.5	1.706470
n_C	656.3	1.710310
$n_{C'}$	643.8	1.711410
$n_{632.8}$	632.8	1.712450
n_D	589.3	1.717150
n_d	587.6	1.717360
n_e	546.1	1.723100
n_F	486.1	1.734620
$n_{F'}$	480.0	1.736100
n_g	435.8	1.749160
n_h	404.7	1.762010
n_i	365.0	1.785800
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.84	0.65
2325	0.88	0.73
1970	0.959	0.900
1530	0.994	0.985
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.996
500	0.997	0.993
460	0.994	0.984
436	0.990	0.976
420	0.984	0.961
405	0.971	0.930
400	0.967	0.920
390	0.946	0.870
380	0.910	0.790
370	0.837	0.640
365	0.758	0.500
350	0.300	0.030
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2127
$P_{C,s}$	0.4705
$P_{d,C}$	0.2899
$P_{e,d}$	0.2364
$P_{g,F}$	0.5983
$P_{i,h}$	0.9791
$P'_{s,t}$	0.2094
$P'_{C,s}$	0.5078
$P'_{d,C'}$	0.2409
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5292
$P'_{i,h}$	0.964

Constants of Dispersion Formula	
B_1	1.55912923
B_2	0.284246288
B_3	0.968842926
C_1	0.0121481001
C_2	0.0534549042
C_3	112.174809

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0018
$\Delta P_{C,s}$	-0.0012
$\Delta P_{F,e}$	0.0009
$\Delta P_{g,F}$	0.0042
$\Delta P_{i,g}$	0.0307

Constants of Dispersion dn/dT	
D_0	$4.84 \cdot 10^{-6}$
D_1	$1.70 \cdot 10^{-8}$
D_2	$-4.52 \cdot 10^{-11}$
E_0	$1.38 \cdot 10^{-6}$
E_1	$1.26 \cdot 10^{-9}$
λ_{TK} [μm]	0.259

Color Code	
λ_{80}/λ_5	39/34
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.8
T_g [$^\circ\text{C}$]	417
$T_{10}^{13.0}$ [$^\circ\text{C}$]	415
$T_{10}^{7.6}$ [$^\circ\text{C}$]	566
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	4.46
E [10^3 N/mm ²]	56
μ	0.232
K [10^{-6} mm ² /N]	1.80
$HK_{0.1/20}$	390
HG	1
B	1.00
CR	2
FR	1
SR	3.2
AR	2.3
PR	3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.5	7.0	10.1	2.2	4.7	7.7
+20/ +40	5.0	7.9	11.3	3.6	6.4	9.8
+60/ +80	5.3	8.4	12.1	4.2	7.3	10.9

SF2
648339.386

$n_d = 1.64769$	$v_d = 33.85$	$n_F - n_C = 0.019135$
$n_e = 1.65222$	$v_e = 33.60$	$n_F' - n_C' = 0.019412$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.610030
$n_{1970.1}$	1970.1	1.614940
$n_{1529.6}$	1529.6	1.620550
$n_{1060.0}$	1060.0	1.627660
n_t	1014.0	1.628610
n_s	852.1	1.632890
n_r	706.5	1.639020
n_C	656.3	1.642100
$n_{C'}$	643.8	1.642970
$n_{632.8}$	632.8	1.643790
n_D	589.3	1.647520
n_d	587.6	1.647690
n_e	546.1	1.652220
n_F	486.1	1.661230
$n_{F'}$	480.0	1.662380
n_g	435.8	1.672490
n_h	404.7	1.682330
n_i	365.0	1.700270
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.83	0.62
2325	0.87	0.71
1970	0.950	0.880
1530	0.994	0.985
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.994
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.993
460	0.995	0.988
436	0.993	0.982
420	0.990	0.975
405	0.985	0.962
400	0.981	0.954
390	0.967	0.920
380	0.946	0.870
370	0.910	0.790
365	0.877	0.720
350	0.672	0.370
334	0.110	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2233
$P_{C,s}$	0.4813
$P_{d,C}$	0.2923
$P_{e,d}$	0.2367
$P_{g,F}$	0.5886
$P_{i,h}$	0.9376
$P'_{s,t}$	0.2201
$P'_{C,s}$	0.5196
$P'_{d,C'}$	0.243
$P'_{e,d}$	0.2334
$P'_{g,F'}$	0.5209
$P'_{i,h}$	0.9242

Constants of Dispersion Formula	
B_1	1.40301821
B_2	0.231767504
B_3	0.939056586
C_1	0.0105795466
C_2	0.0493226978
C_3	112.405955

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0009
$\Delta P_{C,s}$	-0.0005
$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	0.0017
$\Delta P_{i,g}$	0.0112

Constants of Dispersion dn/dT	
D_0	$1.10 \cdot 10^{-6}$
D_1	$1.75 \cdot 10^{-8}$
D_2	$-1.29 \cdot 10^{-11}$
E_0	$1.08 \cdot 10^{-6}$
E_1	$1.03 \cdot 10^{-9}$
λ_{TK} [μm]	0.249

Color Code	
λ_{80}/λ_5	37/33
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.2
T_g [$^\circ\text{C}$]	441
$T_{10}^{13.0}$ [$^\circ\text{C}$]	428
$T_{10}^{7.6}$ [$^\circ\text{C}$]	600
c_p [J/(g·K)]	0.498
λ [W/(m·K)]	0.735
ρ [g/cm ³]	3.86
E [10^3 N/mm ²]	55
μ	0.227
K [10^{-6} mm ² /N]	2.62
$HK_{0.1/20}$	410
HG	2
B	0.00
CR	1
FR	0
SR	2
AR	2.3
PR	2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.3	4.0	6.0	0.1	1.8	3.7
+20/ +40	2.7	4.6	6.9	1.3	3.2	5.4
+60/ +80	3.1	5.2	7.6	2.0	4.1	6.4

SF4
755276.479

$n_d = 1.75520$
 $n_e = 1.76167$

$v_d = 27.58$
 $v_e = 27.37$

$n_F - n_C = 0.027383$
 $n_{F'} - n_{C'} = 0.027829$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.707890
$n_{1970.1}$	1970.1	1.712940
$n_{1529.6}$	1529.6	1.719040
$n_{1060.0}$	1060.0	1.727650
n_t	1014.0	1.728880
n_s	852.1	1.734560
n_r	706.5	1.743000
n_C	656.3	1.747300
$n_{C'}$	643.8	1.748530
$n_{632.8}$	632.8	1.749690
n_D	589.3	1.754960
n_d	587.6	1.755200
n_e	546.1	1.761670
n_F	486.1	1.774680
$n_{F'}$	480.0	1.776360
n_g	435.8	1.791210
n_h	404.7	1.805890
n_i	365.0	1.833300
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.85	0.66
2325	0.89	0.74
1970	0.963	0.910
1530	0.996	0.989
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.996
500	0.996	0.991
460	0.992	0.980
436	0.987	0.967
420	0.980	0.950
405	0.963	0.910
400	0.954	0.890
390	0.924	0.820
380	0.862	0.690
370	0.727	0.450
365	0.601	0.280
350	0.090	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2076
$P_{C,s}$	0.465
$P_{d,C}$	0.2886
$P_{e,d}$	0.2361
$P_{g,F}$	0.6036
$P_{i,h}$	1.0012
$P'_{s,t}$	0.2042
$P'_{C,s}$	0.5018
$P'_{d,C'}$	0.2398
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5337
$P'_{i,h}$	0.9851

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0032
$\Delta P_{C,s}$	-0.0022
$\Delta P_{F,e}$	0.0014
$\Delta P_{g,F}$	0.0062
$\Delta P_{i,g}$	0.0443

Constants of Dispersion Formula	
B_1	1.61957826
B_2	0.339493189
B_3	1.02566931
C_1	0.0125502104
C_2	0.0544559822
C_3	117.652222

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.9
T_g [$^\circ\text{C}$]	420
$T_{10}^{13.0}$ [$^\circ\text{C}$]	415
$T_{10}^{7.6}$ [$^\circ\text{C}$]	552
c_p [J/(g·K)]	0.410
λ [W/(m·K)]	0.650
ρ [g/cm ³]	4.79
E [10^3 N/mm ²]	56
μ	0.241
K [10^{-6} mm ² /N]	1.36
$HK_{0.1/20}$	390
HG	1
B	1.00
CR	1
FR	2
SR	4.3
AR	2.3
PR	3.3

Constants of Dispersion dn/dT	
D_0	$5.60 \cdot 10^{-6}$
D_1	$1.70 \cdot 10^{-8}$
D_2	$-5.27 \cdot 10^{-11}$
E_0	$1.54 \cdot 10^{-6}$
E_1	$1.46 \cdot 10^{-9}$
λ_{TK} [μm]	0.266

Color Code	
λ_{80}/λ_5	40/35
(* = λ_{70}/λ_5)	

Remarks
lead containing glass type

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	5.1	8.1	11.8	2.8	5.7	9.4
+20/ +40	5.7	9.2	13.3	4.3	7.7	11.8
+60/ +80	6.0	9.7	14.2	4.9	8.5	13.0

SF5
673322.407

$n_d = 1.67270$	$v_d = 32.21$	$n_F - n_C = 0.020885$
$n_e = 1.67764$	$v_e = 31.97$	$n_{F'} - n_{C'} = 0.021195$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.632890
$n_{1970.1}$	1970.1	1.637850
$n_{1529.6}$	1529.6	1.643590
$n_{1060.0}$	1060.0	1.651040
n_t	1014.0	1.652060
n_s	852.1	1.656640
n_r	706.5	1.663270
n_C	656.3	1.666610
$n_{C'}$	643.8	1.667560
$n_{632.8}$	632.8	1.668460
n_D	589.3	1.672520
n_d	587.6	1.672700
n_e	546.1	1.677640
n_F	486.1	1.687500
$n_{F'}$	480.0	1.688760
n_g	435.8	1.699860
n_h	404.7	1.710690
n_i	365.0	1.730560
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.85	0.66
2325	0.89	0.74
1970	0.959	0.900
1530	0.995	0.987
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.996
500	0.997	0.993
460	0.995	0.988
436	0.993	0.982
420	0.989	0.973
405	0.983	0.959
400	0.980	0.950
390	0.967	0.920
380	0.950	0.880
370	0.915	0.800
365	0.882	0.730
350	0.626	0.310
334	0.200	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2194
$P_{C,s}$	0.4775
$P_{d,C}$	0.2915
$P_{e,d}$	0.2366
$P_{g,F}$	0.5919
$P_{i,h}$	0.9513
$P'_{s,t}$	0.2162
$P'_{C,s}$	0.5153
$P'_{d,C'}$	0.2423
$P'_{e,d}$	0.2331
$P'_{g,F'}$	0.5237
$P'_{i,h}$	0.9374

Constants of Dispersion Formula	
B_1	1.46141885
B_2	0.247713019
B_3	0.949995832
C_1	0.0111826126
C_2	0.0508594669
C_3	112.041888

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.001
$\Delta P_{C,s}$	-0.0005
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0023
$\Delta P_{i,g}$	0.016

Constants of Dispersion dn/dT	
D_0	$2.59 \cdot 10^{-6}$
D_1	$1.76 \cdot 10^{-8}$
D_2	$-2.03 \cdot 10^{-11}$
E_0	$1.17 \cdot 10^{-6}$
E_1	$1.09 \cdot 10^{-9}$
λ_{TK} [μm]	0.255

Color Code	
λ_{80}/λ_5	37/33
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	8.2
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	9.0
T_g [$^\circ C$]	425
$T_{10}^{13.0}$ [$^\circ C$]	421
$T_{10}^{7.6}$ [$^\circ C$]	580
c_p [(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	4.07
E [10^3 N/mm ²]	56
μ	0.233
K [10^{-6} mm ² /N]	2.28
$HK_{0.1/20}$	410
HG	2
B	1.00
CR	1
FR	1
SR	2
AR	2.3
PR	3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^\circ C$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.1	5.1	7.4	0.9	2.8	5.1
+20/ +40	3.5	5.8	8.4	2.1	4.4	6.9
+60/ +80	3.9	6.4	9.2	2.8	5.2	8.0

SF6
805254.518

$n_d = 1.80518$
 $n_e = 1.81265$

$v_d = 25.43$
 $v_e = 25.24$

$n_F - n_C = 0.031660$
 $n_{F'} - n_{C'} = 0.032201$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.753020
$n_{1970.1}$	1970.1	1.758130
$n_{1529.6}$	1529.6	1.764440
$n_{1060.0}$	1060.0	1.773800
n_t	1014.0	1.775170
n_s	852.1	1.781570
n_r	706.5	1.791170
n_C	656.3	1.796090
$n_{C'}$	643.8	1.797500
$n_{632.8}$	632.8	1.798840
n_D	589.3	1.804910
n_d	587.6	1.805180
n_e	546.1	1.812650
n_F	486.1	1.827750
$n_{F'}$	480.0	1.829700
n_g	435.8	1.847070
n_h	404.7	1.864360
n_i	365.0	1.897030
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.89	0.74
2325	0.91	0.79
1970	0.971	0.930
1530	0.996	0.991
1060	0.999	0.999
700	0.999	0.997
660	0.998	0.996
620	0.998	0.995
580	0.999	0.996
546	0.998	0.996
500	0.996	0.991
460	0.991	0.978
436	0.982	0.955
420	0.967	0.920
405	0.933	0.840
400	0.915	0.800
390	0.847	0.660
380	0.720	0.440
370	0.442	0.130
365	0.246	0.030
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.202
$P_{C,s}$	0.4588
$P_{d,C}$	0.2871
$P_{e,d}$	0.2359
$P_{g,F}$	0.6102
$P_{i,h}$	1.0316
$P'_{s,t}$	0.1986
$P'_{C,s}$	0.495
$P'_{d,C'}$	0.2384
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.5393
$P'_{i,h}$	1.0143

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0048
$\Delta P_{C,s}$	-0.0033
$\Delta P_{F,e}$	0.002
$\Delta P_{g,F}$	0.0092
$\Delta P_{i,g}$	0.0669

Constants of Dispersion Formula	
B_1	1.72448482
B_2	0.390104889
B_3	1.04572858
C_1	0.0134871947
C_2	0.0569318095
C_3	118.557185

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.0
T_g [$^\circ\text{C}$]	423
$T_{10}^{13.0}$ [$^\circ\text{C}$]	410
$T_{10}^{7.6}$ [$^\circ\text{C}$]	538
c_p [J/(g·K)]	0.389
λ [W/(m·K)]	0.673
ρ [g/cm ³]	5.18
E [10^3 N/mm ²]	55
μ	0.244
K [10^{-6} mm ² /N]	0.65
$HK_{0.1/20}$	370
HG	1
B	0.00
CR	2
FR	3
SR	51.3
AR	2.3
PR	3.3

Constants of Dispersion dn/dT	
D_0	$6.69 \cdot 10^{-6}$
D_1	$1.78 \cdot 10^{-8}$
D_2	$-3.36 \cdot 10^{-11}$
E_0	$1.77 \cdot 10^{-6}$
E_1	$1.70 \cdot 10^{-9}$
λ_{TK} [μm]	0.269

Color Code	
λ_{80}/λ_5	42/36
(* = λ_{70}/λ_5)	

Remarks
lead containing glass type

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	6.1	9.9	14.5	3.7	7.4	11.9
+20/ +40	6.8	11.1	16.2	5.3	9.5	14.6
+60/ +80	7.3	11.8	17.4	6.1	10.6	16.1

SF6HT
805254.518

$n_d = 1.80518$	$v_d = 25.43$	$n_F - n_C = 0.031660$
$n_e = 1.81265$	$v_e = 25.24$	$n_F' - n_C' = 0.032201$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.753020
$n_{1970.1}$	1970.1	1.758130
$n_{1529.6}$	1529.6	1.764440
$n_{1060.0}$	1060.0	1.773800
n_t	1014.0	1.775170
n_s	852.1	1.781570
n_r	706.5	1.791170
n_C	656.3	1.796090
$n_{C'}$	643.8	1.797500
$n_{632.8}$	632.8	1.798840
n_D	589.3	1.804910
n_d	587.6	1.805180
n_e	546.1	1.812650
n_F	486.1	1.827750
$n_{F'}$	480.0	1.829700
n_g	435.8	1.847070
n_h	404.7	1.864360
n_i	365.0	1.897030
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.89	0.74
2325	0.91	0.79
1970	0.971	0.930
1530	0.996	0.991
1060	0.999	0.999
700	0.999	0.997
660	0.998	0.996
620	0.998	0.995
580	0.999	0.996
546	0.998	0.996
500	0.996	0.991
460	0.992	0.981
436	0.987	0.967
420	0.977	0.943
405	0.954	0.890
400	0.941	0.860
390	0.891	0.750
380	0.770	0.520
370	0.504	0.180
365	0.302	0.050
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.202
$P_{C,s}$	0.4588
$P_{d,C}$	0.2871
$P_{e,d}$	0.2359
$P_{g,F}$	0.6102
$P_{i,h}$	1.0316
$P'_{s,t}$	0.1986
$P'_{C,s}$	0.495
$P'_{d,C'}$	0.2384
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.5393
$P'_{i,h}$	1.0143

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0048
$\Delta P_{C,s}$	-0.0033
$\Delta P_{F,e}$	0.002
$\Delta P_{g,F}$	0.0092
$\Delta P_{i,g}$	0.0669

Constants of Dispersion Formula	
B_1	1.72448482
B_2	0.390104889
B_3	1.04572858
C_1	0.0134871947
C_2	0.0569318095
C_3	118.557185

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.0
T_g [$^\circ\text{C}$]	423
$T_{10}^{13.0}$ [$^\circ\text{C}$]	410
$T_{10}^{7.6}$ [$^\circ\text{C}$]	538
c_p [J/(g·K)]	0.389
λ [W/(m·K)]	0.673
ρ [g/cm ³]	5.18
E [10^3 N/mm ²]	55
μ	0.244
K [10^{-6} mm ² /N]	0.65
$HK_{0.1/20}$	370
HG	1
B	0.00
CR	2
FR	3
SR	51.3
AR	2.3
PR	3.3

Constants of Dispersion dn/dT	
D_0	$6.69 \cdot 10^{-6}$
D_1	$1.78 \cdot 10^{-8}$
D_2	$-3.36 \cdot 10^{-11}$
E_0	$1.77 \cdot 10^{-6}$
E_1	$1.70 \cdot 10^{-9}$
λ_{TK} [μm]	0.269

Color Code	
λ_{80}/λ_5	41/36
(* = λ_{70}/λ_5)	

Remarks
lead containing glass type

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	6.1	9.9	14.5	3.7	7.4	11.9
+20/ +40	6.8	11.1	16.2	5.3	9.5	14.6
+60/ +80	7.3	11.8	17.4	6.1	10.6	16.1

SF10
728284.428

$n_d = 1.72825$	$v_d = 28.41$	$n_F - n_C = 0.025633$
$n_e = 1.73430$	$v_e = 28.19$	$n_{F'} - n_{C'} = 0.026051$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.682180
$n_{1970.1}$	1970.1	1.687500
$n_{1529.6}$	1529.6	1.693780
$n_{1060.0}$	1060.0	1.702270
n_t	1014.0	1.703450
n_s	852.1	1.708870
n_r	706.5	1.716810
n_C	656.3	1.720850
$n_{C'}$	643.8	1.722000
$n_{632.8}$	632.8	1.723090
n_D	589.3	1.728030
n_d	587.6	1.728250
n_e	546.1	1.734300
n_F	486.1	1.746480
$n_{F'}$	480.0	1.748050
n_g	435.8	1.761980
n_h	404.7	1.775790
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.86	0.69
2325	0.90	0.76
1970	0.967	0.920
1530	0.995	0.987
1060	0.999	0.997
700	0.998	0.995
660	0.997	0.993
620	0.997	0.993
580	0.998	0.995
546	0.998	0.995
500	0.996	0.989
460	0.991	0.978
436	0.984	0.961
420	0.967	0.920
405	0.910	0.790
400	0.862	0.690
390	0.672	0.370
380	0.360	0.060
370	0.080	
365	0.020	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2111
$P_{C,s}$	0.4674
$P_{d,C}$	0.2888
$P_{e,d}$	0.2361
$P_{g,F}$	0.6046
$P_{i,h}$	
$P'_{s,t}$	0.2077
$P'_{C,s}$	0.5042
$P'_{d,C'}$	0.2399
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5346
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.61625977
B_2	0.259229334
B_3	1.07762317
C_1	0.0127534559
C_2	0.0581983954
C_3	116.60768

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0012
$\Delta P_{C,s}$	-0.0017
$\Delta P_{F,e}$	0.0017
$\Delta P_{g,F}$	0.0085
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$5.31 \cdot 10^{-6}$
D_1	$1.59 \cdot 10^{-8}$
D_2	$-4.07 \cdot 10^{-11}$
E_0	$1.28 \cdot 10^{-6}$
E_1	$1.32 \cdot 10^{-9}$
λ_{TK} [μm]	0.270

Color Code	
λ_{80}/λ_5	41/37
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.4
T_g [$^\circ\text{C}$]	454
$T_{10}^{13.0}$ [$^\circ\text{C}$]	445
$T_{10}^{7.6}$ [$^\circ\text{C}$]	595
c_p [J/(g·K)]	0.465
λ [W/(m·K)]	0.741
ρ [g/cm ³]	4.28
E [10^3 N/mm ²]	64
μ	0.232
K [10^{-6} mm ² /N]	1.95
$HK_{0.1/20}$	430
HG	1
B	0.00
CR	1
FR	0
SR	1
AR	1.2
PR	2

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.8	7.3	10.3	2.5	4.9	7.9
+20/ +40	5.3	8.1	11.6	3.8	6.6	10.0
+60/ +80	5.6	8.6	12.4	4.4	7.4	11.1

SF56A
785261.492

$n_d = 1.78470$	$v_d = 26.08$	$n_F - n_C = 0.030092$
$n_e = 1.79180$	$v_e = 25.87$	$n_F' - n_C' = 0.030603$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.734060
$n_{1970.1}$	1970.1	1.739250
$n_{1529.6}$	1529.6	1.745590
$n_{1060.0}$	1060.0	1.754730
n_t	1014.0	1.756060
n_s	852.1	1.762200
n_r	706.5	1.771360
n_C	656.3	1.776050
$n_{C'}$	643.8	1.777400
$n_{632.8}$	632.8	1.778660
n_D	589.3	1.784440
n_d	587.6	1.784700
n_e	546.1	1.791800
n_F	486.1	1.806150
$n_{F'}$	480.0	1.808000
n_g	435.8	1.824490
n_h	404.7	1.840920
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.87	0.70
2325	0.90	0.76
1970	0.967	0.920
1530	0.996	0.989
1060	0.999	0.997
700	0.998	0.995
660	0.997	0.993
620	0.998	0.994
580	0.998	0.994
546	0.998	0.994
500	0.996	0.989
460	0.990	0.974
436	0.980	0.950
420	0.959	0.900
405	0.896	0.760
400	0.857	0.680
390	0.700	0.410
380	0.398	0.100
370	0.120	0.010
365	0.040	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.204
$P_{C,s}$	0.4605
$P_{d,C}$	0.2874
$P_{e,d}$	0.2359
$P_{g,F}$	0.6098
$P_{i,h}$	
$P'_{s,t}$	0.2006
$P'_{C,s}$	0.4967
$P'_{d,C'}$	0.2387
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.539
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.70579259
B_2	0.344223052
B_3	1.09601828
C_1	0.0133874699
C_2	0.0579561608
C_3	121.616024

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0042
$\Delta P_{C,s}$	-0.0032
$\Delta P_{F,e}$	0.0021
$\Delta P_{g,F}$	0.0098
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$6.02 \cdot 10^{-6}$
D_1	$1.70 \cdot 10^{-8}$
D_2	$-2.61 \cdot 10^{-11}$
E_0	$1.63 \cdot 10^{-6}$
E_1	$1.59 \cdot 10^{-9}$
λ_{TK} [μm]	0.269

Color Code	
λ_{80}/λ_5	42/37
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.8
T_g [$^\circ\text{C}$]	429
$T_{10}^{13.0}$ [$^\circ\text{C}$]	426
$T_{10}^{7.6}$ [$^\circ\text{C}$]	556
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	4.92
E [10^3 N/mm ²]	57
μ	0.239
K [10^{-6} mm ² /N]	1.10
$HK_{0.1/20}$	380
HG	1
B	1.00
CR	1
FR	1
SR	3.2
AR	2.2
PR	3.2

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	5.6	9.0	13.1	3.3	6.6	10.6
+20/ +40	6.2	10.0	14.7	4.7	8.5	13.1
+60/ +80	6.6	10.7	15.8	5.5	9.5	14.5

SF57
847238.551

$n_d = 1.84666$	$v_d = 23.83$	$n_F - n_C = 0.035536$
$n_e = 1.85504$	$v_e = 23.64$	$n_{F'} - n_{C'} = 0.036166$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.790260
$n_{1970.1}$	1970.1	1.795390
$n_{1529.6}$	1529.6	1.801870
$n_{1060.0}$	1060.0	1.811850
n_t	1014.0	1.813350
n_s	852.1	1.820380
n_r	706.5	1.831020
n_C	656.3	1.836500
$n_{C'}$	643.8	1.838080
$n_{632.8}$	632.8	1.839570
n_D	589.3	1.846360
n_d	587.6	1.846660
n_e	546.1	1.855040
n_F	486.1	1.872040
$n_{F'}$	480.0	1.874250
n_g	435.8	1.893930
n_h	404.7	1.913660
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.89	0.75
2325	0.91	0.79
1970	0.971	0.930
1530	0.996	0.991
1060	0.999	0.997
700	0.998	0.996
660	0.998	0.994
620	0.998	0.994
580	0.998	0.994
546	0.998	0.994
500	0.994	0.986
460	0.987	0.968
436	0.971	0.930
420	0.941	0.860
405	0.882	0.730
400	0.847	0.660
390	0.727	0.450
380	0.523	0.198
370	0.160	0.010
365	0.040	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.1976
$P_{C,s}$	0.4539
$P_{d,C}$	0.2859
$P_{e,d}$	0.2356
$P_{g,F}$	0.616
$P_{i,h}$	
$P'_{s,t}$	0.1942
$P'_{C,s}$	0.4895
$P'_{d,C'}$	0.2373
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5443
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.81651371
B_2	0.428893641
B_3	1.07186278
C_1	0.0143704198
C_2	0.0592801172
C_3	121.419942

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0065
$\Delta P_{C,s}$	-0.0046
$\Delta P_{F,e}$	0.0026
$\Delta P_{g,F}$	0.0123
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$7.26 \cdot 10^{-6}$
D_1	$1.88 \cdot 10^{-8}$
D_2	$-5.14 \cdot 10^{-11}$
E_0	$1.96 \cdot 10^{-6}$
E_1	$1.79 \cdot 10^{-9}$
λ_{TK} [μm]	0.276

Color Code	
λ_{80}/λ_5	40/37*
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.2
T_g [$^\circ\text{C}$]	414
$T_{10}^{13.0}$ [$^\circ\text{C}$]	391
$T_{10}^{7.6}$ [$^\circ\text{C}$]	519
c_p [J/(g·K)]	0.360
λ [W/(m·K)]	0.620
ρ [g/cm ³]	5.51
E [10^3 N/mm ²]	54
μ	0.248
K [10^{-6} mm ² /N]	0.02
$HK_{0.1/20}$	350
HG	1
B	0.00
CR	2
FR	5
SR	52.3
AR	2.3
PR	4.3

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	6.6	11.1	16.7	4.2	8.6	14.1
+20/ +40	7.6	12.5	18.9	6.0	10.9	17.2
+60/ +80	8.0	13.4	20.1	6.8	12.1	18.8

SF57HHT
847238.551

$n_d = 1.84666$	$v_d = 23.83$	$n_F - n_C = 0.035536$
$n_e = 1.85504$	$v_e = 23.64$	$n_F' - n_C' = 0.036166$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.790260
$n_{1970.1}$	1970.1	1.795390
$n_{1529.6}$	1529.6	1.801870
$n_{1060.0}$	1060.0	1.811850
n_t	1014.0	1.813350
n_s	852.1	1.820380
n_r	706.5	1.831020
n_C	656.3	1.836500
$n_{C'}$	643.8	1.838080
$n_{632.8}$	632.8	1.839570
n_D	589.3	1.846360
n_d	587.6	1.846660
n_e	546.1	1.855040
n_F	486.1	1.872040
$n_{F'}$	480.0	1.874250
n_g	435.8	1.893930
n_h	404.7	1.913660
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.91	0.80
2325	0.93	0.83
1970	0.980	0.951
1530	0.998	0.994
1060	0.999	0.999
700	0.999	0.998
660	0.999	0.997
620	0.999	0.997
580	0.999	0.997
546	0.999	0.997
500	0.996	0.990
460	0.991	0.978
436	0.985	0.962
420	0.971	0.930
405	0.941	0.860
400	0.924	0.820
390	0.831	0.630
380	0.621	0.304
370	0.250	0.029
365	0.100	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.1976
$P_{C,s}$	0.4539
$P_{d,C}$	0.2859
$P_{e,d}$	0.2356
$P_{g,F}$	0.616
$P_{i,h}$	
$P'_{s,t}$	0.1942
$P'_{C,s}$	0.4895
$P'_{d,C'}$	0.2373
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5443
$P'_{i,h}$	

Constants of Dispersion Formula	
B_1	1.81651371
B_2	0.428893641
B_3	1.07186278
C_1	0.0143704198
C_2	0.0592801172
C_3	121.419942

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.0065
$\Delta P_{C,s}$	-0.0046
$\Delta P_{F,e}$	0.0026
$\Delta P_{g,F}$	0.0123
$\Delta P_{i,g}$	

Constants of Dispersion dn/dT	
D_0	$7.26 \cdot 10^{-6}$
D_1	$1.88 \cdot 10^{-8}$
D_2	$-5.14 \cdot 10^{-11}$
E_0	$1.96 \cdot 10^{-6}$
E_1	$1.79 \cdot 10^{-9}$
λ_{TK} [μm]	0.276

Color Code	
λ_{80}/λ_5	39/36*
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	9.2
T_g [$^\circ\text{C}$]	414
$T_{10}^{13.0}$ [$^\circ\text{C}$]	391
$T_{10}^{7.6}$ [$^\circ\text{C}$]	519
c_p [J/(g·K)]	0.360
λ [W/(m·K)]	0.620
ρ [g/cm ³]	5.51
E [10^3 N/mm ²]	54
μ	0.248
K [10^{-6} mm ² /N]	0.02
$HK_{0.1/20}$	350
HG	1
B	0.00
CR	2
FR	5
SR	52.3
AR	2.3
PR	4.3

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	6.6	11.1	16.7	4.2	8.6	14.1
+20/ +40	7.6	12.5	18.9	6.0	10.9	17.2
+60/ +80	8.0	13.4	20.1	6.8	12.1	18.8

KZFS12
696363.384

$n_d = 1.69600$
 $n_e = 1.70055$

$v_d = 36.29$
 $v_e = 36.06$

$n_F - n_C = 0.019179$
 $n_{F'} - n_{C'} = 0.019425$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.649700
$n_{1970.1}$	1970.1	1.657490
$n_{1529.6}$	1529.6	1.665800
$n_{1060.0}$	1060.0	1.674880
n_t	1014.0	1.675980
n_s	852.1	1.680710
n_r	706.5	1.687170
n_C	656.3	1.690330
$n_{C'}$	643.8	1.691220
$n_{632.8}$	632.8	1.692060
n_D	589.3	1.695830
n_d	587.6	1.696000
n_e	546.1	1.700550
n_F	486.1	1.709510
$n_{F'}$	480.0	1.710650
n_g	435.8	1.720590
n_h	404.7	1.730170
n_i	365.0	1.747460
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.28	0.04
2325	0.62	0.30
1970	0.919	0.810
1530	0.976	0.940
1060	0.998	0.994
700	0.997	0.993
660	0.997	0.992
620	0.997	0.992
580	0.996	0.991
546	0.996	0.991
500	0.994	0.986
460	0.988	0.971
436	0.977	0.944
420	0.963	0.910
405	0.933	0.840
400	0.919	0.810
390	0.877	0.720
380	0.804	0.580
370	0.679	0.380
365	0.574	0.250
350	0.109	0.004
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2468
$P_{C,s}$	0.5013
$P_{d,C}$	0.2957
$P_{e,d}$	0.2371
$P_{g,F}$	0.5778
$P_{i,h}$	0.9012
$P'_{s,t}$	0.2436
$P'_{C,s}$	0.5409
$P'_{d,C'}$	0.246
$P'_{e,d}$	0.2341
$P'_{g,F'}$	0.5118
$P'_{i,h}$	0.8898

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0309
$\Delta P_{C,s}$	0.0138
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.005
$\Delta P_{i,g}$	-0.0189

Constants of Dispersion Formula	
B_1	1.55624873
B_2	0.239769276
B_3	0.947887658
C_1	0.0102012744
C_2	0.0469277969
C_3	69.8370722

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	6.2
T_g [$^\circ\text{C}$]	492
$T_{10}^{13.0}$ [$^\circ\text{C}$]	476
$T_{10}^{7.6}$ [$^\circ\text{C}$]	549
c_p [J/(g·K)]	0.540
λ [W/(m·K)]	0.710

Constants of Dispersion dn/dT	
D_0	$4.36 \cdot 10^{-6}$
D_1	$1.32 \cdot 10^{-8}$
D_2	$-1.81 \cdot 10^{-11}$
E_0	$6.86 \cdot 10^{-7}$
E_1	$6.81 \cdot 10^{-10}$
λ_{TK} [μm]	0.253

Color Code	
λ_{80}/λ_5	40/35
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

ρ [g/cm^3]	3.84
E [$10^3 \text{ N}/\text{mm}^2$]	66
μ	0.279
K [$10^{-6} \text{ mm}^2/\text{N}$]	2.35
$HK_{0.1/20}$	440
HG	4
B	1.00
CR	4
FR	1
SR	53.3
AR	4.3
PR	4.3

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
[$^\circ\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.1	5.4	6.8	1.9	3.1	4.4
+20/ +40	4.3	5.7	7.3	2.8	4.2	5.8
+60/ +80	4.5	6.0	7.8	3.4	4.9	6.6

KZFSN5
654396.346

$n_d = 1.65412$	$v_d = 39.63$	$n_F - n_C = 0.016507$
$n_e = 1.65803$	$v_e = 39.40$	$n_F' - n_C' = 0.016701$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.611080
$n_{1970.1}$	1970.1	1.618800
$n_{1529.6}$	1529.6	1.626920
$n_{1060.0}$	1060.0	1.635480
n_t	1014.0	1.636490
n_s	852.1	1.640750
n_r	706.5	1.646440
n_C	656.3	1.649200
$n_{C'}$	643.8	1.649980
$n_{632.8}$	632.8	1.650700
n_D	589.3	1.653970
n_d	587.6	1.654120
n_e	546.1	1.658030
n_F	486.1	1.665710
$n_{F'}$	480.0	1.666680
n_g	435.8	1.675120
n_h	404.7	1.683190
n_i	365.0	1.697590
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.25	0.03
2325	0.56	0.24
1970	0.901	0.770
1530	0.967	0.920
1060	0.999	0.997
700	0.998	0.996
660	0.998	0.996
620	0.998	0.996
580	0.998	0.996
546	0.998	0.995
500	0.997	0.992
460	0.994	0.985
436	0.991	0.978
420	0.987	0.968
405	0.980	0.950
400	0.976	0.940
390	0.963	0.911
380	0.937	0.850
370	0.887	0.740
365	0.842	0.650
350	0.515	0.190
334	0.130	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2581
$P_{C,s}$	0.512
$P_{d,C}$	0.2978
$P_{e,d}$	0.2374
$P_{g,F}$	0.57
$P_{i,h}$	0.8727
$P'_{s,t}$	0.2551
$P'_{C,s}$	0.5525
$P'_{d,C'}$	0.2479
$P'_{e,d}$	0.2346
$P'_{g,F'}$	0.5053
$P'_{i,h}$	0.8625

Constants of Dispersion Formula	
B_1	1.47727858
B_2	0.191686941
B_3	0.897333608
C_1	0.00975488335
C_2	0.0450495404
C_3	67.8786495

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0371
$\Delta P_{C,s}$	0.0167
$\Delta P_{F,e}$	-0.0027
$\Delta P_{g,F}$	-0.0071
$\Delta P_{i,g}$	-0.0302

Constants of Dispersion dn/dT	
D_0	$5.51 \cdot 10^{-6}$
D_1	$1.48 \cdot 10^{-8}$
D_2	$-2.21 \cdot 10^{-11}$
E_0	$6.22 \cdot 10^{-7}$
E_1	$7.05 \cdot 10^{-10}$
λ_{TK} [μm]	0.230

Color Code	
λ_{80}/λ_5	37/34
(*= λ_{70}/λ_5)	

Remarks
lead containing glass type

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	4.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	5.7
T_g [$^\circ\text{C}$]	501
$T_{10}^{13.0}$ [$^\circ\text{C}$]	479
$T_{10}^{7.6}$ [$^\circ\text{C}$]	0
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	3.46
E [10^3 N/mm ²]	65
μ	0.275
K [10^{-6} mm ² /N]	2.89
$HK_{0.1/20}$	460
HG	5
B	1.00
CR	3
FR	2
SR	52.3
AR	4.3
PR	4.3

Temperature Coefficients of Refractive Index						
[$^\circ\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/ -20	4.4	5.5	6.6	2.2	3.2	4.3
+20/ +40	4.7	5.9	7.1	3.3	4.4	5.6
+60/ +80	4.9	6.2	7.6	3.8	5.1	6.4

N-KZFS2 558540.255

$n_d = 1.55836$
 $n_e = 1.56082$

$v_d = 54.01$
 $v_e = 53.83$

$n_F - n_C = 0.010338$
 $n_{F'} - n_{C'} = 0.010418$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.522390
$n_{1970.1}$	1970.1	1.530110
$n_{1529.6}$	1529.6	1.537980
$n_{1060.0}$	1060.0	1.545460
n_t	1014.0	1.546250
n_s	852.1	1.549440
n_r	706.5	1.553370
n_C	656.3	1.555190
$n_{C'}$	643.8	1.555700
$n_{632.8}$	632.8	1.556170
n_D	589.3	1.558270
n_d	587.6	1.558360
n_e	546.1	1.560820
n_F	486.1	1.565530
$n_{F'}$	480.0	1.566120
n_g	435.8	1.571140
n_h	404.7	1.575800
n_i	365.0	1.583820
$n_{334.1}$	334.1	1.592590
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.23697554
B_2	0.153569376
B_3	0.903976272
C_1	0.00747170505
C_2	0.0308053556
C_3	70.1731084

Constants of Dispersion dn/dT	
D_0	$6.77 \cdot 10^{-6}$
D_1	$1.31 \cdot 10^{-8}$
D_2	$-1.23 \cdot 10^{-11}$
E_0	$3.84 \cdot 10^{-7}$
E_1	$5.51 \cdot 10^{-10}$
λ_{TK} [μm]	0.196

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	4.6	5.2	5.7	2.5	3.0	3.5
+20/ +40	4.7	5.3	5.9	3.3	3.9	4.5
+60/ +80	4.8	5.5	6.2	3.8	4.5	5.1

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.28	0.04
2325	0.58	0.26
1970	0.915	0.800
1530	0.976	0.940
1060	0.996	0.991
700	0.998	0.996
660	0.998	0.994
620	0.998	0.994
580	0.998	0.994
546	0.998	0.994
500	0.997	0.992
460	0.995	0.987
436	0.992	0.981
420	0.990	0.975
405	0.987	0.967
400	0.985	0.963
390	0.980	0.950
380	0.971	0.930
370	0.963	0.910
365	0.954	0.890
350	0.915	0.800
334	0.810	0.590
320	0.565	0.240
310	0.246	0.030
300	0.010	
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	34/30
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.308
$P_{C,s}$	0.5568
$P_{d,C}$	0.3061
$P_{e,d}$	0.2383
$P_{g,F}$	0.5419
$P_{i,h}$	0.7758
$P'_{s,t}$	0.3056
$P'_{C,s}$	0.6011
$P'_{d,C'}$	0.2552
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4814
$P'_{i,h}$	0.7699

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0636
$\Delta P_{C,s}$	0.028
$\Delta P_{F,e}$	-0.0044
$\Delta P_{g,F}$	-0.0111
$\Delta P_{i,g}$	-0.044

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/K$]	4.4
$\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/K$]	5.4
T_g [$^{\circ}\text{C}$]	491
$T_{10}^{13.0}$ [$^{\circ}\text{C}$]	488
$T_{10}^{7.6}$ [$^{\circ}\text{C}$]	600
c_p [J/(g·K)]	0.830
λ [W/(m·K)]	0.810
ρ [g/cm ³]	2.55
E [10^3 N/mm ²]	66
μ	0.266
K [10^{-6} mm ² /N]	4.02
$HK_{0.1/20}$	490
HG	3
B	1.00
CR	1
FR	4
SR	52.3
AR	4.3
PR	4.2

N-KZFS4 613445.300

$n_d = 1.61336$
 $n_e = 1.61664$

$v_d = 44.49$
 $v_e = 44.27$

$n_F - n_C = 0.013785$
 $n_{F'} - n_{C'} = 0.013929$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.575350
$n_{1970.1}$	1970.1	1.582330
$n_{1529.6}$	1529.6	1.589710
$n_{1060.0}$	1060.0	1.597390
n_t	1014.0	1.598280
n_s	852.1	1.601990
n_r	706.5	1.606880
n_C	656.3	1.609220
$n_{C'}$	643.8	1.609870
$n_{632.8}$	632.8	1.610490
n_D	589.3	1.613240
n_d	587.6	1.613360
n_e	546.1	1.616640
n_F	486.1	1.623000
$n_{F'}$	480.0	1.623800
n_g	435.8	1.630710
n_h	404.7	1.637230
n_i	365.0	1.648650
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.35055424
B_2	0.197575506
B_3	1.09962992
C_1	0.0087628207
C_2	0.0371767201
C_3	90.3866994

Constants of Dispersion dn/dT	
D_0	$1.81 \cdot 10^{-6}$
D_1	$1.16 \cdot 10^{-8}$
D_2	$-7.99 \cdot 10^{-12}$
E_0	$6.20 \cdot 10^{-7}$
E_1	$7.94 \cdot 10^{-10}$
λ_{TK} [μm]	0.205

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.7	3.5	4.4	0.5	1.3	2.2
+20/ +40	2.7	3.7	4.7	1.3	2.3	3.2
+60/ +80	2.8	3.9	5.0	1.7	2.8	3.9

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.56	0.23
2325	0.79	0.56
1970	0.965	0.915
1530	0.988	0.970
1060	0.998	0.996
700	0.998	0.994
660	0.997	0.993
620	0.997	0.993
580	0.997	0.993
546	0.997	0.992
500	0.995	0.987
460	0.990	0.976
436	0.987	0.968
420	0.984	0.961
405	0.981	0.952
400	0.979	0.948
390	0.971	0.930
380	0.963	0.910
370	0.941	0.860
365	0.924	0.820
350	0.815	0.600
334	0.468	0.150
320	0.040	
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	36/32
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2694
$P_{C,s}$	0.524
$P_{d,C}$	0.3006
$P_{e,d}$	0.2378
$P_{g,F}$	0.559
$P_{i,h}$	0.8284
$P'_{s,t}$	0.2666
$P'_{C,s}$	0.5657
$P'_{d,C'}$	0.2503
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.4958
$P'_{i,h}$	0.8199

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0373
$\Delta P_{C,s}$	0.0173
$\Delta P_{F,e}$	-0.0033
$\Delta P_{g,F}$	-0.01
$\Delta P_{i,g}$	-0.0496

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	7.3
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	8.2
T_g [$^{\circ}C$]	547
$T_{10}^{13.0}$ [$^{\circ}C$]	545
$T_{10}^{7.6}$ [$^{\circ}C$]	675
c_p [J/(g·K)]	0.760
λ [W/(m·K)]	0.840
ρ [g/cm ³]	3.00
E [10^3 N/mm ²]	78
μ	0.241
K [10^{-6} mm ² /N]	3.90
$HK_{0.1/20}$	520
HG	3
B	1.00
CR	1
FR	1
SR	3.4
AR	1.2
PR	1

N-KZFS8 720347.320

$n_d = 1.72047$
 $n_e = 1.72539$

$v_d = 34.70$
 $v_e = 34.47$

$n_F - n_C = 0.020763$
 $n_{F'} - n_{C'} = 0.021046$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.675240
$n_{1970.1}$	1970.1	1.681930
$n_{1529.6}$	1529.6	1.689390
$n_{1060.0}$	1060.0	1.698160
n_t	1014.0	1.699270
n_s	852.1	1.704160
n_r	706.5	1.710990
n_C	656.3	1.714370
$n_{C'}$	643.8	1.715320
$n_{632.8}$	632.8	1.716220
n_D	589.3	1.720290
n_d	587.6	1.720470
n_e	546.1	1.725390
n_F	486.1	1.735130
$n_{F'}$	480.0	1.736370
n_g	435.8	1.747240
n_h	404.7	1.757770
n_i	365.0	1.776900
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.62693651
B_2	0.24369876
B_3	1.62007141
C_1	0.010880863
C_2	0.0494207753
C_3	131.009163

Constants of Dispersion dn/dT	
D_0	$7.93 \cdot 10^{-7}$
D_1	$6.47 \cdot 10^{-9}$
D_2	$-5.00 \cdot 10^{-12}$
E_0	$7.71 \cdot 10^{-7}$
E_1	$1.01 \cdot 10^{-9}$
λ_{TK} [μm]	0.254

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	2.7	4.1	5.6	0.4	1.7	3.2
+20/ +40	2.4	4.0	5.8	0.9	2.5	4.2
+60/ +80	2.4	4.1	6.1	1.2	2.9	4.9

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.76	0.51
2325	0.87	0.70
1970	0.967	0.920
1530	0.993	0.983
1060	0.999	0.999
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.997	0.993
500	0.994	0.985
460	0.988	0.971
436	0.982	0.955
420	0.976	0.940
405	0.967	0.920
400	0.963	0.910
390	0.946	0.870
380	0.924	0.820
370	0.887	0.740
365	0.857	0.680
350	0.665	0.360
334	0.141	0.010
320	0.042	
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	38/33
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2353
$P_{C,s}$	0.4916
$P_{d,C}$	0.294
$P_{e,d}$	0.2369
$P_{g,F}$	0.5833
$P_{i,h}$	0.9212
$P'_{s,t}$	0.2322
$P'_{C,s}$	0.5305
$P'_{d,C'}$	0.2445
$P'_{e,d}$	0.2337
$P'_{g,F'}$	0.5165
$P'_{i,h}$	0.9088

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0173
$\Delta P_{C,s}$	0.0078
$\Delta P_{F,e}$	-0.0011
$\Delta P_{g,F}$	-0.0021
$\Delta P_{i,g}$	-0.0048

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	7.8
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	9.4
T_g [$^{\circ}C$]	509
$T_{10}^{13.0}$ [$^{\circ}C$]	515
$T_{10}^{7.6}$ [$^{\circ}C$]	635
c_p [J/(g·K)]	0.760
λ [W/(m·K)]	1.050
ρ [g/cm ³]	3.20
E [10^3 N/mm ²]	103
μ	0.248
K [10^{-6} mm ² /N]	2.94
$HK_{0.1/20}$	570
HG	4
B	1.00
CR	1
FR	0
SR	1
AR	1
PR	1

N-KZFS11 638424.320

$n_d = 1.63775$
 $n_e = 1.64132$

$v_d = 42.41$
 $v_e = 42.20$

$n_F - n_C = 0.015038$
 $n_{F'} - n_{C'} = 0.015198$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.596990
$n_{1970.1}$	1970.1	1.604390
$n_{1529.6}$	1529.6	1.612230
$n_{1060.0}$	1060.0	1.620440
n_t	1014.0	1.621390
n_s	852.1	1.625400
n_r	706.5	1.630690
n_C	656.3	1.633240
$n_{C'}$	643.8	1.633950
$n_{632.8}$	632.8	1.634620
n_D	589.3	1.637620
n_d	587.6	1.637750
n_e	546.1	1.641320
n_F	486.1	1.648280
$n_{F'}$	480.0	1.649150
n_g	435.8	1.656700
n_h	404.7	1.663850
n_i	365.0	1.676360
$n_{334.1}$	334.1	1.690370
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
B_1	1.3322245
B_2	0.28924161
B_3	1.15161734
C_1	0.0084029848
C_2	0.034423972
C_3	88.4310532

Constants of Dispersion dn/dT	
D_0	$3.34 \cdot 10^{-6}$
D_1	$1.16 \cdot 10^{-8}$
D_2	$-1.80 \cdot 10^{-11}$
E_0	$6.32 \cdot 10^{-7}$
E_1	$7.21 \cdot 10^{-10}$
λ_{TK} [μm]	0.206

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}\text{C}$]	1060.0	e	g	1060.0	e	g
-40/ -20	3.5	4.4	5.4	1.3	2.2	3.1
+20/ +40	3.5	4.6	5.7	2.1	3.1	4.2
+60/ +80	3.6	4.8	6.0	2.5	3.7	4.8

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.51	0.18
2325	0.78	0.54
1970	0.965	0.914
1530	0.991	0.977
1060	0.999	0.999
700	0.998	0.994
660	0.997	0.992
620	0.997	0.992
580	0.997	0.992
546	0.997	0.993
500	0.996	0.989
460	0.993	0.982
436	0.991	0.978
420	0.990	0.975
405	0.988	0.971
400	0.987	0.968
390	0.983	0.957
380	0.976	0.940
370	0.963	0.910
365	0.950	0.880
350	0.882	0.730
334	0.727	0.450
320	0.468	0.150
310	0.230	0.020
300	0.050	
290		
280		
270		
260		
250		

Color Code	
λ_{80}/λ_5	36/30
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2664
$P_{C,s}$	0.5212
$P_{d,C}$	0.3
$P_{e,d}$	0.2377
$P_{g,F}$	0.5605
$P_{i,h}$	0.8319
$P'_{s,t}$	0.2636
$P'_{C,s}$	0.5627
$P'_{d,C'}$	0.2499
$P'_{e,d}$	0.2352
$P'_{g,F'}$	0.4971
$P'_{i,h}$	0.8232

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0415
$\Delta P_{C,s}$	0.0194
$\Delta P_{F,e}$	-0.0039
$\Delta P_{g,F}$	-0.012
$\Delta P_{i,g}$	-0.0617

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/K$]	6.6
$\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/K$]	7.6
T_g [$^{\circ}\text{C}$]	551
$T_{10}^{13.0}$ [$^{\circ}\text{C}$]	554
$T_{10}^{7.6}$ [$^{\circ}\text{C}$]	0
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.810
ρ [g/cm ³]	3.20
E [10^3 N/mm ²]	79
μ	0.251
K [10^{-6} mm ² /N]	4.21
$HK_{0.1/20}$	530
HG	3
B	1.00
CR	1
FR	1
SR	3.4
AR	1
PR	1

LITHOSIL-Q 458678.220

$n_d = 1.45844$
 $n_e = 1.46005$

$v_d = 67.83$
 $v_e = 67.68$

$n_F - n_C = 0.006759$
 $n_{F'} - n_{C'} = 0.006798$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.43291
$n_{1970.1}$	1970.1	1.43850
$n_{1529.6}$	1529.6	1.44425
$n_{1060.0}$	1060.0	1.44966
n_t	1014.0	1.45022
n_s	852.1	1.45244
n_r	706.5	1.45512
n_C	656.3	1.45634
$n_{C'}$	643.8	1.45668
$n_{632.8}$	632.8	1.45699
n_D	589.3	1.45838
n_d	587.6	1.45844
n_e	546.1	1.46005
n_F	486.1	1.46310
$n_{F'}$	480.0	1.46348
n_g	435.8	1.46667
n_h	404.7	1.46959
n_i	365.0	1.47451
$n_{334.1}$	334.1	1.479740
$n_{312.6}$	312.6	1.484470
$n_{296.7}$	296.7	1.488710
$n_{280.4}$	280.4	1.494000
$n_{248.3}$	248.3	1.508380

Constants of Dispersion Formula	
B_1	0.67071081
B_2	0.433322857
B_3	0.877379057
C_1	0.00449192312
C_2	0.0132812976
C_3	95.8899878

Constants of Dispersion dn/dT	
D_0	$2.06 \cdot 10^{-5}$
D_1	$2.51 \cdot 10^{-8}$
D_2	$-2.47 \cdot 10^{-11}$
E_0	$3.12 \cdot 10^{-7}$
E_1	$4.22 \cdot 10^{-10}$
λ_{TK} [μm]	0.160

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	8.8	9.3	9.7	6.9	7.3	7.7
+20/ +40	9.4	9.9	10.4	8.1	8.6	9.0
+60/ +80	9.8	10.4	10.9	8.8	9.4	9.8

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.90	0.77
2325	0.90	0.77
1970	0.962	0.907
1530	0.998	0.994
1060	0.999	0.998
700	0.999	0.999
660	0.999	0.999
620	0.999	0.999
580	0.999	0.999
546	0.999	0.999
500	0.999	0.999
460	0.999	0.999
436	0.999	0.999
420	0.999	0.999
405	0.999	0.999
400	0.999	0.999
390	0.999	0.999
380	0.999	0.999
370	0.999	0.999
365	0.999	0.999
350	0.999	0.999
334	0.999	0.999
320	0.999	0.999
310	0.999	1.000
300	1.000	1.000
290	1.000	1.000
280	1.000	1.000
270	1.000	1.000
260	1.000	1.000
250		

Color Code	
λ_{80}/λ_5	17/16
(* = λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.3288
$P_{C,s}$	0.5770
$P_{d,C}$	0.3102
$P_{e,d}$	0.2388
$P_{g,F}$	0.5276
$P_{i,h}$	0.7283
$P'_{s,t}$	0.3269
$P'_{C,s}$	0.6233
$P'_{d,C'}$	0.2588
$P'_{e,d}$	0.2375
$P'_{g,F'}$	0.4693
$P'_{i,h}$	0.7241

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0390
$\Delta P_{C,s}$	0.0160
$\Delta P_{F,e}$	-0.0017
$\Delta P_{g,F}$	-0.0021
$\Delta P_{i,g}$	0.0054

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	0.5
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	0.6
T_g [$^{\circ}C$]	980
$T_{10}^{13.0}$ [$^{\circ}C$]	1080
$T_{10}^{7.6}$ [$^{\circ}C$]	1600
c_p [J/(g·K)]	0.790
λ [W/(m·K)]	1.310
ρ [g/cm ³]	2.20
E [10^3 N/mm ²]	72
μ	0.170
K [10^{-6} mm ² /N]	3.40
$HK_{0.1/20}$	580
HG	0
B	0.00
CR	1
FR	0
SR	1
AR	1
PR	1

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$n_d = 1.43385$
 $n_e = 1.43494$

$v_d = 95.23$
 $v_e = 94.69$

$n_F - n_C = 0.004556$
 $n_{F'} - n_{C'} = 0.004593$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.42212
$n_{1970.1}$	1970.1	1.42402
$n_{1529.6}$	1529.6	1.42613
$n_{1060.0}$	1060.0	1.42851
n_t	1014.0	1.42880
n_s	852.1	1.43003
n_r	706.5	1.43167
n_C	656.3	1.43246
$n_{C'}$	643.8	1.43268
$n_{632.8}$	632.8	1.43289
n_D	589.3	1.43381
n_d	587.6	1.43385
n_e	546.1	1.43494
n_F	486.1	1.43702
$n_{F'}$	480.0	1.43727
n_g	435.8	1.43947
n_h	404.7	1.44149
n_i	365.0	1.44489
$n_{334.1}$	334.1	1.448490
$n_{312.6}$	312.6	1.451730
$n_{296.7}$	296.7	1.454640
$n_{280.4}$	280.4	1.458240
$n_{248.3}$	248.3	1.467920

Constants of Dispersion Formula	
B_1	0.617617011
B_2	0.421117656
B_3	3.79711183
C_1	0.00275381936
C_2	0.0105900875
C_3	1182.67444

Constants of Dispersion dn/dT	
D_0	$-3.18 \cdot 10^{-5}$
D_1	$-2.31 \cdot 10^{-8}$
D_2	$4.13 \cdot 10^{-11}$
E_0	$3.35 \cdot 10^{-7}$
E_1	$1.91 \cdot 10^{-10}$
λ_{TK} [μm]	0.192

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T$ [$10^{-6}/K$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/K$]		
[$^{\circ}C$]	1060.0	e	g	1060.0	e	g
-40/ -20	-8.6	-8.4	-8.1	-10.5	-10.3	-10.1
+20/ +40	-10.4	-10.2	-9.9	-11.6	-11.4	-11.2
+60/ +80	-11.2	-11.0	-10.7	-12.2	-12.0	-11.7

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	1.00	1.00
2325	1.00	1.00
1970	0.999	0.999
1530	0.999	0.999
1060	0.999	0.999
700	0.999	0.999
660	0.999	0.999
620	0.999	0.999
580	0.999	0.999
546	0.999	0.999
500	0.999	0.999
460	0.999	0.998
436	0.999	0.998
420	0.999	0.998
405	0.999	0.998
400	0.999	0.998
390	0.999	0.998
380	0.999	0.998
370	0.999	0.998
365	0.999	0.998
350	0.999	0.998
334	0.999	0.998
320	0.999	0.998
310	0.999	1.000
300	1.000	1.000
290	1.000	1.000
280	1.000	1.000
270	1.000	1.000
260	1.000	1.000
250	1.000	1.000

Color Code	
λ_{80}/λ_5	14/12
(*= λ_{70}/λ_5)	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2698
$P_{C,s}$	0.5333
$P_{d,C}$	0.3046
$P_{e,d}$	0.2388
$P_{g,F}$	0.5388
$P_{i,h}$	0.7462
$P'_{s,t}$	0.2676
$P'_{C,s}$	0.5770
$P'_{d,C'}$	0.2541
$P'_{e,d}$	0.2369
$P'_{g,F'}$	0.4782
$P'_{i,h}$	0.7401

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.1935
$\Delta P_{C,s}$	-0.0915
$\Delta P_{F,e}$	0.0183
$\Delta P_{g,F}$	0.0552
$\Delta P_{i,g}$	0.2636

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [$10^{-6}/K$]	18.4
$\alpha_{+20/+300^{\circ}C}$ [$10^{-6}/K$]	21.3
T_g [$^{\circ}C$]	0
$T_{10} 13.0$ [$^{\circ}C$]	0
$T_{10} 7.6$ [$^{\circ}C$]	0
c_p [J/(g·K)]	0.854
λ [W/(m·K)]	9.710
ρ [g/cm ³]	3.18
E [10^3 N/mm ²]	76
μ	0.260
K [10^{-6} mm ² /N]	1.77
$HK_{0.1/20}$	158
HG	6
B	1.00
CR	1
FR	0
SR	4.5
AR	2.3
PR	1.3

Advanced Optics

SCHOTT AG

Hattenbergstraße 10

55122 Mainz

Germany

Tel.: +49 (0)6131/66-1812

Fax: +49 (0)3641/2888-9047

E-mail: info.optics@schott.com

www.schott.com/advanced_optics

Advanced Optics

SCHOTT Singapore Pte. Ltd.

151 Lorong Chuan

#06-01A Main Lobby

New Tech Park

Singapore 556741

Tel.: +659 (0) 6488-2366

Fax: +659 (0) 6488-0838

E-mail: sales.singapore@schott.com

www.schott.com/singapore

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