

SFL57
847236.355

$n_d = 1.84666$	$v_d = 23.62$	$n_F - n_C = 0.035841$
$n_e = 1.85510$	$v_e = 23.43$	$n_{F'} - n_{C'} = 0.036489$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.78487
$n_{1970.1}$	1970.1	1.79171
$n_{1529.6}$	1529.6	1.79989
$n_{1060.0}$	1060.0	1.81117
n_t	1014.0	1.81276
n_s	852.1	1.82007
n_r	706.5	1.83089
n_C	656.3	1.83643
$n_{C'}$	643.8	1.83802
$n_{632.8}$	632.8	1.83952
n_D	589.3	1.84635
n_d	587.6	1.84666
n_e	546.1	1.85510
n_F	486.1	1.87227
$n_{F'}$	480.0	1.87451
n_g	435.8	1.89456
n_h	404.7	1.91488
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	0.882	0.730
2325	0.910	0.790
1970	0.984	0.960
1530	0.996	0.990
1060	0.996	0.991
700	0.990	0.976
660	0.987	0.969
620	0.988	0.971
580	0.988	0.971
546	0.982	0.955
500	0.954	0.890
460	0.915	0.800
436	0.852	0.670
420	0.770	0.520
405	0.609	0.290
400	0.525	0.200
390	0.260	0.030
380	0.050	
370		
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2038
$P_{C,s}$	0.4566
$P_{d,C}$	0.2855
$P_{e,d}$	0.2353
$P_{g,F}$	0.6218
$P_{i,h}$	
$P'_{s,t}$	0.2002
$P'_{C',s}$	0.4920
$P'_{d,C'}$	0.2369
$P'_{e,d}$	0.2311
$P'_{g,F'}$	0.5495
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0034
$\Delta P_{C,s}$	-0.0014
$\Delta P_{F,e}$	0.0033
$\Delta P_{g,F}$	0.0177
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	1.88742326
B_2	0.360534025
B_3	2.26189313
C_1	0.0145939341
C_2	0.0648198946
C_3	176.062211

Constants of Dispersion dn/dT	
D_0	$-3.63 \cdot 10^{-6}$
D_1	$8.61 \cdot 10^{-9}$
D_2	$-9.98 \cdot 10^{-12}$
E_0	$1.10 \cdot 10^{-6}$
E_1	$1.69 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.293

Color Code	
λ_{80}/λ_5	44/38*
(*= λ_{70}/λ_5)	

Remarks
inquiry glass, lead containing

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.7
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	10.0
$T_g [^\circ C]$	598
$T_{10}^{13.0} [^\circ C]$	0
$T_{10}^{7.6} [^\circ C]$	700
$c_p [J/(g \cdot K)]$	0.670
$\lambda [W/(m \cdot K)]$	0.997
$\rho [g/cm^3]$	3.55
$E [10^3 N/mm^2]$	97
μ	0.261
$K [10^{-6} mm^2/N]$	2.73
$HK_{0.1/20}$	580
HG	3
CR	1
FR	0
SR	1.3
AR	1
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	0.1	2.4	5.6	-2.3	-0.1	3.0
+20/ +40	0.1	2.9	6.8	-1.5	1.2	5.1
+60/ +80	0.2	3.3	7.7	-1.0	2.1	6.4