

**SFL6**  
**805254.337**

$n_d = 1.80518$	$v_d = 25.39$	$n_F - n_C = 0.031708$
$n_e = 1.81265$	$v_e = 25.19$	$n_{F'} - n_{C'} = 0.032260$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.74897
$n_{1970.1}$	1970.1	1.75544
$n_{1529.6}$	1529.6	1.76311
$n_{1060.0}$	1060.0	1.77345
$n_t$	1014.0	1.77489
$n_s$	852.1	1.78147
$n_r$	706.5	1.79116
$n_C$	656.3	1.79609
$n_{C'}$	643.8	1.79751
$n_{632.8}$	632.8	1.79884
$n_D$	589.3	1.80491
$n_d$	587.6	1.80518
$n_e$	546.1	1.81265
$n_F$	486.1	1.82780
$n_{F'}$	480.0	1.82977
$n_g$	435.8	1.84733
$n_h$	404.7	1.86500
$n_i$	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	
$B_1$	1.78922056
$B_2$	0.328427448
$B_3$	2.01639441
$C_1$	0.0135163537
$C_2$	0.0622729599
$C_3$	168.014713

Constants of Dispersion dn/dT	
$D_0$	$-5.26 \cdot 10^{-6}$
$D_1$	$7.41 \cdot 10^{-9}$
$D_2$	$-1.89 \cdot 10^{-11}$
$E_0$	$1.02 \cdot 10^{-6}$
$E_1$	$1.62 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.288

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500		
2325	0.930	0.840
1970	0.980	0.950
1530	0.998	0.995
1060	0.995	0.988
700	0.996	0.989
660	0.995	0.988
620	0.993	0.983
580	0.992	0.980
546	0.988	0.970
500	0.976	0.940
460	0.959	0.900
436	0.940	0.860
420	0.920	0.810
405	0.880	0.720
400	0.850	0.670
390	0.770	0.520
380	0.570	0.250
370	0.210	0.020
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80}/\lambda_5$	45/37
(*= $\lambda_{70}/\lambda_5$ )	

Remarks
inquiry glass

Temperature Coefficients of Refractive Index						
[°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	-0.8	1.1	3.8	-3.2	-1.4	1.2
+20/ +40	-1.0	1.4	4.7	-2.5	-0.1	3.1
+60/ +80	-0.9	1.8	5.4	-2.1	0.5	4.2

Relative Partial Dispersion	
$P_{s,t}$	0.2075
$P_{C,s}$	0.4611
$P_{d,C}$	0.2867
$P_{e,d}$	0.2355
$P_{g,F}$	0.6159
$P_{i,h}$	
$P'_{s,t}$	0.2040
$P'_{C',s}$	0.4970
$P'_{d,C'}$	0.2380
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5444
$P'_{i,h}$	

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	0.0032
$\Delta P_{C,s}$	-0.0010
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.0148
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	10.3
$T_g [^\circ C]$	585
$T_{10}^{13.0} [^\circ C]$	592
$T_{10}^{7.6} [^\circ C]$	0
$c_p [J/(g \cdot K)]$	
$\lambda [W/(m \cdot K)]$	
$\rho [g/cm^3]$	3.37
$E [10^3 N/mm^2]$	93
$\mu$	0.260
$K [10^{-6} mm^2/N]$	2.79
$HK_{0.1/20}$	570
HG	
CR	1
FR	0
SR	2
AR	1
PR	1