

**SF4**  
**755276.479**

$n_d = 1.75520$	$v_d = 27.58$	$n_F - n_C = 0.027383$
$n_e = 1.76167$	$v_e = 27.37$	$n_{F'} - n_{C'} = 0.027829$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.70789
$n_{1970.1}$	1970.1	1.71294
$n_{1529.6}$	1529.6	1.71904
$n_{1060.0}$	1060.0	1.72765
$n_t$	1014.0	1.72888
$n_s$	852.1	1.73456
$n_r$	706.5	1.74300
$n_C$	656.3	1.74730
$n_{C'}$	643.8	1.74853
$n_{632.8}$	632.8	1.74969
$n_D$	589.3	1.75496
$n_d$	587.6	1.75520
$n_e$	546.1	1.76167
$n_F$	486.1	1.77468
$n_{F'}$	480.0	1.77636
$n_g$	435.8	1.79121
$n_h$	404.7	1.80589
$n_i$	365.0	1.83330
$n_{334.1}$	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	
$B_1$	1.61957826
$B_2$	0.339493189
$B_3$	1.02566931
$C_1$	0.0125502104
$C_2$	0.0544559822
$C_3$	117.652222

Constants of Dispersion $dn/dT$	
$D_0$	$5.60 \cdot 10^{-6}$
$D_1$	$1.70 \cdot 10^{-8}$
$D_2$	$-5.27 \cdot 10^{-11}$
$E_0$	$1.54 \cdot 10^{-6}$
$E_1$	$1.46 \cdot 10^{-9}$
$\lambda_{TK}$ [μm]	0.266

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	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

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.847	0.660
2325	0.887	0.740
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		

Color Code	
$\lambda_{80}/\lambda_{5}$	40/35
(*= $\lambda_{70}/\lambda_{5}$ )	

**Remarks**  
lead containing glass type

Relative Partial Dispersion	
$P_{s,t}$	0.2076
$P_{C,s}$	0.4650
$P_{d,C}$	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 $\Delta P$ 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

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.9
$T_g$ [°C]	420
$T_{10}^{13.0}$ [°C]	415
$T_{10}^{7.6}$ [°C]	552
$c_p$ [J/(g·K)]	0.410
$\lambda$ [W/(m·K)]	0.650
$\rho$ [g/cm <sup>3</sup> ]	4.79
$E$ [10 <sup>3</sup> N/mm <sup>2</sup> ]	56
$\mu$	0.241
$K$ [10 <sup>-6</sup> mm <sup>2</sup> /N]	1.36
$HK_{0.1/20}$	390
<b>HG</b>	1
<b>B</b>	1
<b>CR</b>	1
<b>FR</b>	2
<b>SR</b>	4.3
<b>AR</b>	2.3
<b>PR</b>	3.3