

## N-SF4 755274.315

$n_d = 1.75513$	$v_d = 27.38$	$n_F - n_C = 0.027583$
$n_e = 1.76164$	$v_e = 27.16$	$n_{F'} - n_{C'} = 0.028044$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.70434
$n_{1970.1}$	1970.1	1.71052
$n_{1529.6}$	1529.6	1.71773
$n_{1060.0}$	1060.0	1.72717
$n_t$	1014.0	1.72846
$n_s$	852.1	1.73432
$n_r$	706.5	1.74286
$n_C$	656.3	1.74719
$n_{C'}$	643.8	1.74842
$n_{632.8}$	632.8	1.74959
$n_D$	589.3	1.75489
$n_d$	587.6	1.75513
$n_e$	546.1	1.76164
$n_F$	486.1	1.77477
$n_{F'}$	480.0	1.77647
$n_g$	435.8	1.79158
$n_h$	404.7	1.80668
$n_i$	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 $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.776	0.530
2325	0.816	0.602
1970	0.943	0.863
1530	0.992	0.980
1060	0.999	0.999
700	0.994	0.984
660	0.991	0.978
620	0.992	0.979
580	0.993	0.982
546	0.991	0.977
500	0.979	0.948
460	0.961	0.906
436	0.942	0.861
420	0.916	0.802
405	0.861	0.687
400	0.830	0.628
390	0.740	0.471
380	0.563	0.238
370	0.249	0.031
365	0.100	0.003
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2123
$P_{C,s}$	0.4666
$P_{d,C}$	0.2880
$P_{e,d}$	0.2358
$P_{g,F}$	0.6096
$P_{i,h}$	
$P'_{s,t}$	0.2088
$P'_{C',s}$	0.5030
$P'_{d,C'}$	0.2392
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.5390
$P'_{i,h}$	

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	0.0040
$\Delta P_{C,s}$	-0.0002
$\Delta P_{F,e}$	0.0022
$\Delta P_{g,F}$	0.0118
$\Delta P_{i,g}$	

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 $dn/dT$	
$D_0$	$-4.88 \cdot 10^{-6}$
$D_1$	$6.57 \cdot 10^{-9}$
$D_2$	$-2.72 \cdot 10^{-11}$
$E_0$	$9.67 \cdot 10^{-7}$
$E_1$	$1.48 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.282

Color Code	
$\lambda_{80}/\lambda_5$	43/36
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

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
$c_p [J/(g \cdot K)]$	0.760
$\lambda [W/(m \cdot K)]$	0.950
$\rho [g/cm^3]$	3.15
$E [10^3 N/mm^2]$	90
$\mu$	0.256
$K [10^{-6} mm^2/N]$	2.76
$HK_{0.1/20}$	520
$HG$	6
$CR$	1
$FR$	0
$SR$	1.3
$AR$	1
$PR$	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	-0.5	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