

## N-SF14 762265.312

$n_d = 1.76182$	$v_d = 26.53$	$n_F - n_C = 0.028715$
$n_e = 1.76859$	$v_e = 26.32$	$n_{F'} - n_{C'} = 0.029204$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.70954
$n_{1970.1}$	1970.1	1.71581
$n_{1529.6}$	1529.6	1.72315
$n_{1060.0}$	1060.0	1.73284
$n_t$	1014.0	1.73417
$n_s$	852.1	1.74022
$n_r$	706.5	1.74907
$n_C$	656.3	1.75356
$n_{C'}$	643.8	1.75485
$n_{632.8}$	632.8	1.75606
$n_D$	589.3	1.76157
$n_d$	587.6	1.76182
$n_e$	546.1	1.76859
$n_F$	486.1	1.78228
$n_{F'}$	480.0	1.78405
$n_g$	435.8	1.79986
$n_h$	404.7	1.81570
$n_i$	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	0.799	0.570
2325	0.837	0.640
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 $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	0.0044
$\Delta P_{C,s}$	-0.0002
$\Delta P_{F,e}$	0.0024
$\Delta P_{g,F}$	0.0130
$\Delta P_{i,g}$	

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

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

Color Code	
$\lambda_{80}/\lambda_5$	42/36
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.4
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	10.9
$T_g [^\circ C]$	566
$T_{10}^{13.0} [^\circ C]$	562
$T_{10}^{7.6} [^\circ C]$	657
$c_p [J/(g \cdot K)]$	0.750
$\lambda [W/(m \cdot K)]$	1.000
$\rho [g/cm^3]$	3.12
$E [10^3 N/mm^2]$	88
$\mu$	0.259
$K [10^{-6} mm^2/N]$	2.89
$HK_{0.1/20}$	515
$HG$	5
$CR$	1
$FR$	0
$SR$	1
$AR$	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	-0.9	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