

## N-SF1 717296.303

$n_d = 1.71736$	$v_d = 29.62$	$n_F - n_C = 0.024219$
$n_e = 1.72308$	$v_e = 29.39$	$n_{F'} - n_{C'} = 0.024606$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.67021
$n_{1970.1}$	1970.1	1.67641
$n_{1529.6}$	1529.6	1.68350
$n_{1060.0}$	1060.0	1.69240
$n_t$	1014.0	1.69358
$n_s$	852.1	1.69889
$n_r$	706.5	1.70651
$n_C$	656.3	1.71035
$n_{C'}$	643.8	1.71144
$n_{632.8}$	632.8	1.71247
$n_D$	589.3	1.71715
$n_d$	587.6	1.71736
$n_e$	546.1	1.72308
$n_F$	486.1	1.73457
$n_{F'}$	480.0	1.73605
$n_g$	435.8	1.74919
$n_h$	404.7	1.76224
$n_i$	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	0.733	0.460
2325	0.804	0.580
1970	0.937	0.850
1530	0.989	0.973
1060	0.998	0.995
700	0.996	0.990
660	0.994	0.986
620	0.995	0.987
580	0.996	0.990
546	0.994	0.986
500	0.987	0.968
460	0.976	0.940
436	0.963	0.910
420	0.946	0.870
405	0.896	0.760
400	0.867	0.700
390	0.770	0.520
380	0.574	0.250
370	0.252	0.030
365	0.096	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2190
$P_{C,s}$	0.4733
$P_{d,C}$	0.2895
$P_{e,d}$	0.2360
$P_{g,F}$	0.6037
$P_{i,h}$	
$P'_{s,t}$	0.2156
$P'_{C',s}$	0.5103
$P'_{d,C'}$	0.2405
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5340
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0068
$\Delta P_{C,s}$	0.0013
$\Delta P_{F,e}$	0.0016
$\Delta P_{g,F}$	0.0097
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.60865158
$B_2$	0.237725916
$B_3$	1.51530653
$C_1$	0.0119654879
$C_2$	0.0590589722
$C_3$	135.521676

Constants of Dispersion $dn/dT$	
$D_0$	$-3.72 \cdot 10^{-6}$
$D_1$	$8.05 \cdot 10^{-9}$
$D_2$	$-1.71 \cdot 10^{-11}$
$E_0$	$8.98 \cdot 10^{-7}$
$E_1$	$1.34 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.276

Color Code	
$\lambda_{80}/\lambda_5$	41/36
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.1
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	10.5
$T_g [^\circ C]$	553
$T_{10}^{13.0} [^\circ C]$	554
$T_{10}^{7.6} [^\circ C]$	660
$c_p [J/(g \cdot K)]$	0.750
$\lambda [W/(m \cdot K)]$	1.000
$\rho [g/cm^3]$	3.03
$E [10^3 N/mm^2]$	90
$\mu$	0.250
$K [10^{-6} mm^2/N]$	2.72
$HK_{0.1/20}$	540
$HG$	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	0.1	1.7	3.6	-2.2	-0.7	1.2
+20/ +40	0.0	1.8	4.2	-1.5	0.3	2.7
+60/ +80	0.0	2.1	4.8	-1.1	0.9	3.5