

## N-SF57HT 847238.353

$n_d = 1.84666$	$v_d = 23.78$	$n_F - n_C = 0.035604$
$n_e = 1.85504$	$v_e = 23.59$	$n_F' - n_C' = 0.036247$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.78502
$n_{1970.1}$	1970.1	1.79190
$n_{1529.6}$	1529.6	1.80011
$n_{1060.0}$	1060.0	1.81138
$n_t$	1014.0	1.81296
$n_s$	852.1	1.82023
$n_f$	706.5	1.83099
$n_C$	656.3	1.83650
$n_{C'}$	643.8	1.83807
$n_{632.8}$	632.8	1.83956
$n_D$	589.3	1.84635
$n_d$	587.6	1.84666
$n_e$	546.1	1.85504
$n_F$	486.1	1.87210
$n_{F'}$	480.0	1.87432
$n_g$	435.8	1.89423
$n_h$	404.7	1.91440
$n_i$	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	
$B_1$	1.87543831
$B_2$	0.373757490
$B_3$	2.300017970
$C_1$	0.01417495180
$C_2$	0.0640509927
$C_3$	177.3897950

Constants of Formula for $dn/dT$	
$D_0$	-4.51E-06
$D_1$	8.73E-09
$D_2$	-1.64E-11
$E_0$	1.07E-06
$E_1$	1.57E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.295

Temperature Coefficients of the 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	-0.5	1.7	4.9	-2.9	-0.8	2.3
+20/+40	-0.5	2.2	6.0	-2.1	0.6	4.3
+60/+80	-0.4	2.6	6.9	-1.6	1.3	5.6

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.810	0.580
2325	0.840	0.640
1970	0.956	0.890
1530	0.992	0.980
1060	0.999	0.998
700	0.992	0.979
660	0.988	0.971
620	0.989	0.973
580	0.991	0.977
546	0.987	0.967
500	0.972	0.930
460	0.951	0.880
436	0.930	0.830
420	0.900	0.760
405	0.830	0.630
400	0.790	0.560
390	0.660	0.350
380	0.380	0.090
370	0.060	0.000
365	0.000	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	41/37*

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2042
$P_{C,s}$	0.4568
$P_{d,C}$	0.2855
$P_{e,d}$	0.2353
$P_{g,F}$	0.6216
$P_{i,h}$	
$P'_{s,t}$	0.2005
$P'_{C,s}$	0.4922
$P'_{d,C'}$	0.2369
$P'_{e,d}$	0.2311
$P'_{g,F'}$	0.5493
$P'_{i,h}$	

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0032
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	0.0033
$\Delta P_{g,F}$	0.0178
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.5
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.9
$T_g$ [°C]	629
$T_{10}^{13}$ [°C]	616
$T_{10}^{7.6}$ [°C]	716
$c_p$ [J/(g·K)]	0.660
$\lambda$ [W/(m·K)]	0.990
$\rho$ [g/cm <sup>3</sup> ]	3.53
$E$ [ $10^3$ N/mm <sup>2</sup> ]	96
$\mu$	0.260
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.78
$HK_{0.1/20}$	520
HG	4
Abrasion Aa	175
CR	1
FR	0
SR	1
AR	1
PR	1