

## N-SF57HTultra 847238.353

$n_d = 1.84666$   
 $n_e = 1.85504$

$v_d = 23.78$   
 $v_e = 23.59$

$n_F - n_C = 0.035604$   
 $n_{F'} - n_{C'} = 0.036247$

### 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
$n_r$	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

$B_1$	1.875438310
$B_2$	0.373757490
$B_3$	2.300017970
$C_1$	0.014174952
$C_2$	0.064050927
$C_3$	177.38979500

### 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	0.995	0.988
660	0.994	0.985
620	0.993	0.983
580	0.992	0.981
546	0.989	0.973
500	0.978	0.950
460	0.962	0.910
436	0.940	0.860
420	0.920	0.810
405	0.860	0.690
400	0.830	0.630
390	0.700	0.410
380	0.420	0.110
370	0.060	0.000
365	0.000	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{70} / \lambda_{50}$  40/37

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2042
$P_{C,s}$	0.4568
$P_{d,C}$	0.2855
$P_{e,d}$	0.2353
$P_{g,F}$	0.6216
$P_{i,h}$	

### Relative Partial Dispersion P'

$P'_{s,t}$	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 Rel. Partial Disp.

#### $\Delta P$ 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
$\Delta P_{i,g}$	

### Chemical Properties

CR	1
FR	0
SR	1
AR	1
PR	1

### 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