

**N-SF5**  
**673323.286**

$n_d = 1.67271$	$v_d = 32.25$	$n_F - n_C = 0.020858$
$n_e = 1.67763$	$v_e = 32.00$	$n_F' - n_C' = 0.021177$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.62935
$n_{1970.1}$	1970.1	1.63554
$n_{1529.6}$	1529.6	1.64249
$n_{1060.0}$	1060.0	1.65080
$n_t$	1014.0	1.65188
$n_s$	852.1	1.65661
$n_f$	706.5	1.66330
$n_C$	656.3	1.66664
$n_{C'}$	643.8	1.66759
$n_{632.8}$	632.8	1.66848
$n_D$	589.3	1.67253
$n_d$	587.6	1.67271
$n_e$	546.1	1.67763
$n_F$	486.1	1.68750
$n_{F'}$	480.0	1.68876
$n_g$	435.8	1.69998
$n_h$	404.7	1.71106
$n_i$	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	
$B_1$	1.52481889
$B_2$	0.187085527
$B_3$	1.427290150
$C_1$	0.01125475600
$C_2$	0.0588995392
$C_3$	129.1416750

Constants of Formula for $dn/dT$	
$D_0$	-2.51E-07
$D_1$	1.07E-08
$D_2$	-2.40E-11
$E_0$	7.85E-07
$E_1$	1.15E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.278

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	1.8	3.1	4.8	-0.5	0.8	2.5
+20/+40	1.8	3.4	5.5	0.4	2.0	4.0
+60/+80	1.9	3.7	6.0	0.8	2.5	4.8

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.760	0.500
2325	0.830	0.630
1970	0.950	0.880
1530	0.990	0.975
1060	0.998	0.994
700	0.996	0.989
660	0.995	0.987
620	0.995	0.988
580	0.996	0.991
546	0.995	0.988
500	0.990	0.976
460	0.982	0.956
436	0.973	0.940
420	0.963	0.910
405	0.930	0.830
400	0.910	0.780
390	0.830	0.620
380	0.640	0.330
370	0.280	0.040
365	0.120	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	40/36

Remarks	
step 0.5 available	

Relative Partial Dispersion	
$P_{s,t}$	0.2270
$P_{C,s}$	0.4807
$P_{d,C}$	0.2910
$P_{e,d}$	0.2362
$P_{g,F}$	0.5984
$P_{i,h}$	
$P'_{s,t}$	0.2236
$P'_{C,s}$	0.5184
$P'_{d,C'}$	0.2418
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5295
$P'_{i,h}$	

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0097
$\Delta P_{C,s}$	0.0027
$\Delta P_{F,e}$	0.0014
$\Delta P_{g,F}$	0.0088
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.9
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.2
$T_g$ [°C]	578
$T_{10}^{13}$ [°C]	576
$T_{10}^{7.6}$ [°C]	693
$c_p$ [J/(g·K)]	0.770
$\lambda$ [W/(m·K)]	1.000
$\rho$ [g/cm <sup>3</sup> ]	2.86
$E$ [ $10^3$ N/mm <sup>2</sup> ]	87
$\mu$	0.237
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.99
$HK_{0.1/20}$	620
HG	3
CR	1
FR	0
SR	1
AR	1
PR	1