

## N-SF6HT 805254.337

$n_d = 1.80518$	$v_d = 25.36$	$n_F - n_C = 0.031750$
$n_e = 1.81266$	$v_e = 25.16$	$n_{F'} - n_{C'} = 0.032304$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.74895
$n_{1970.1}$	1970.1	1.75541
$n_{1529.6}$	1529.6	1.76307
$n_{1060.0}$	1060.0	1.77341
$n_t$	1014.0	1.77486
$n_s$	852.1	1.78144
$n_r$	706.5	1.79114
$n_C$	656.3	1.79608
$n_{C'}$	643.8	1.79749
$n_{632.8}$	632.8	1.79883
$n_D$	589.3	1.80491
$n_d$	587.6	1.80518
$n_e$	546.1	1.81266
$n_F$	486.1	1.82783
$n_{F'}$	480.0	1.82980
$n_g$	435.8	1.84738
$n_h$	404.7	1.86506
$n_i$	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	0.793	0.560
2325	0.826	0.620
1970	0.946	0.870
1530	0.992	0.980
1060	0.999	0.997
700	0.994	0.984
660	0.991	0.977
620	0.992	0.979
580	0.992	0.981
546	0.990	0.975
500	0.980	0.950
460	0.966	0.917
436	0.954	0.890
420	0.937	0.850
405	0.901	0.770
400	0.877	0.720
390	0.793	0.560
380	0.592	0.270
370	0.209	0.020
365	0.004	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2074
$P_{C,s}$	0.4610
$P_{d,C}$	0.2867
$P_{e,d}$	0.2356
$P_{g,F}$	0.6158
$P_{i,h}$	
$P'_{s,t}$	0.2039
$P'_{C',s}$	0.4969
$P'_{d,C'}$	0.2380
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5443
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0031
$\Delta P_{C,s}$	-0.0010
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.0146
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.77931763
$B_2$	0.338149866
$B_3$	2.08734474
$C_1$	0.0133714182
$C_2$	0.0617533621
$C_3$	174.01759

Color Code	
$\lambda_{80}/\lambda_5$	44/37
(*= $\lambda_{70}/\lambda_5$ )	

Remarks

Constants of Dispersion dn/dT	
$D_0$	$-4.93 \cdot 10^{-6}$
$D_1$	$7.02 \cdot 10^{-9}$
$D_2$	$-2.40 \cdot 10^{-11}$
$E_0$	$9.84 \cdot 10^{-7}$
$E_1$	$1.54 \cdot 10^{-9}$
$\lambda_{TK}$ [μm]	0.29

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	9.0
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	10.3
$T_g$ [°C]	589
$T_{10}^{13.0}$ [°C]	590
$T_{10}^{7.6}$ [°C]	683
$c_p$ [J/(g·K)]	0.690
$\lambda$ [W/(m·K)]	0.960
$\rho$ [g/cm <sup>3</sup> ]	3.37
$E$ [ $10^3$ N/mm <sup>2</sup> ]	93
$\mu$	0.262
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.82
$HK_{0.1/20}$	550
HG	4
CR	1
FR	0
SR	2
AR	1
PR	1

Temperature Coefficients of 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	-0.7	1.2	3.9	-3.0	-1.2	1.3
+20/ +40	-0.8	1.5	4.8	-2.3	0.0	3.1
+60/ +80	-0.8	1.8	5.4	-2.0	0.6	4.1