

## SF6HT 805254.518

$n_d = 1.80518$	$v_d = 25.43$	$n_F - n_C = 0.031660$
$n_e = 1.81265$	$v_e = 25.24$	$n_F' - n_C' = 0.032201$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.75302
$n_{1970.1}$	1970.1	1.75813
$n_{1529.6}$	1529.6	1.76444
$n_{1060.0}$	1060.0	1.77380
$n_t$	1014.0	1.77517
$n_s$	852.1	1.78157
$n_f$	706.5	1.79117
$n_C$	656.3	1.79609
$n_{C'}$	643.8	1.79750
$n_{632.8}$	632.8	1.79884
$n_D$	589.3	1.80491
$n_d$	587.6	1.80518
$n_e$	546.1	1.81265
$n_F$	486.1	1.82775
$n_{F'}$	480.0	1.82970
$n_g$	435.8	1.84707
$n_h$	404.7	1.86436
$n_i$	365.0	1.89703
$n_{334.1}$	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	
$B_1$	1.72448482
$B_2$	0.390104889
$B_3$	1.045728580
$C_1$	0.01348719470
$C_2$	0.0569318095
$C_3$	118.5571850

Constants of Formula for $dn/dT$	
$D_0$	6.69E-06
$D_1$	1.78E-08
$D_2$	-3.36E-11
$E_0$	1.77E-06
$E_1$	1.70E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.269

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	6.1	9.9	14.5	3.7	7.4	11.9
+20/+40	6.8	11.1	16.2	5.3	9.5	14.6
+60/+80	7.3	11.8	17.4	6.1	10.6	16.1

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.890	0.740
2325	0.910	0.790
1970	0.971	0.930
1530	0.996	0.991
1060	0.999	0.999
700	0.999	0.997
660	0.998	0.996
620	0.998	0.995
580	0.999	0.996
546	0.998	0.996
500	0.996	0.991
460	0.992	0.981
436	0.987	0.967
420	0.977	0.940
405	0.954	0.890
400	0.940	0.860
390	0.890	0.750
380	0.770	0.520
370	0.500	0.180
365	0.300	0.050
350	0.000	0.000
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	41/36

Remarks
lead containing glass type

Relative Partial Dispersion	
$P_{s,t}$	0.2020
$P_{C,s}$	0.4588
$P_{d,C}$	0.2871
$P_{e,d}$	0.2359
$P_{g,F}$	0.6102
$P_{i,h}$	1.0316
$P'_{s,t}$	0.1986
$P'_{C,s}$	0.4950
$P'_{d,C'}$	0.2384
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.5393
$P'_{i,h}$	1.0143

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	-0.0048
$\Delta P_{C,s}$	-0.0033
$\Delta P_{F,e}$	0.0020
$\Delta P_{g,F}$	0.0092
$\Delta P_{i,g}$	0.0669

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.0
$T_g$ [°C]	423
$T_{10}^{13}$ [°C]	410
$T_{10}^{7.6}$ [°C]	538
$c_p$ [J/(g·K)]	0.389
$\lambda$ [W/(m·K)]	0.673
$\rho$ [g/cm <sup>3</sup> ]	5.18
$E$ [ $10^3$ N/mm <sup>2</sup> ]	55
$\mu$	0.244
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	0.65
$HK_{0.1/20}$	370
HG	1
CR	2
FR	3
SR	51.3
AR	2.3
PR	3.3