

## 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
$n_r$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.887	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	0.996
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	0.943
405	0.954	0.890
400	0.941	0.860
390	0.891	0.750
380	0.770	0.520
370	0.504	0.180
365	0.302	0.050
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

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 Dispersions $\Delta P$ 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

Constants of Dispersion Formula	
$B_1$	1.72448482
$B_2$	0.390104889
$B_3$	1.04572858
$C_1$	0.0134871947
$C_2$	0.0569318095
$C_3$	118.557185

Constants of Dispersion $dn/dT$	
$D_0$	$6.69 \cdot 10^{-6}$
$D_1$	$1.78 \cdot 10^{-8}$
$D_2$	$-3.36 \cdot 10^{-11}$
$E_0$	$1.77 \cdot 10^{-6}$
$E_1$	$1.70 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.269

Color Code	
$\lambda_{80}/\lambda_5$	41/36
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
lead containing glass type	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.1
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.0
$T_g [^\circ C]$	423
$T_{10}^{13.0} [^\circ C]$	410
$T_{10}^{7.6} [^\circ C]$	538
$c_p [J/(g \cdot K)]$	0.389
$\lambda [W/(m \cdot K)]$	0.673
$\rho [g/cm^3]$	5.18
$E [10^3 N/mm^2]$	55
$\mu$	0.244
$K [10^{-6} mm^2/N]$	0.65
$HK_{0.1/20}$	370
<b>HG</b>	1
<b>CR</b>	2
<b>FR</b>	3
<b>SR</b>	51.3
<b>AR</b>	2.3
<b>PR</b>	3.3

Temperature Coefficients of Refractive Index						
[ $^\circ C$ ]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	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