

## SF6 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	

### Constants of Dispersion Formula

$B_1$	1.724484820
$B_2$	0.390104889
$B_3$	1.045728580
$C_1$	0.013487195
$C_2$	0.0569318095
$C_3$	118.55718500

### 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	0.991	0.978
436	0.982	0.955
420	0.967	0.920
405	0.930	0.840
400	0.920	0.800
390	0.850	0.660
380	0.720	0.440
370	0.440	0.130
365	0.250	0.030
350	0.000	0.000
334		
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_{5}$  42/36

### Remarks

lead containing glass type

### Relative Partial Dispersion P

$P_{s,t}$	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

### Relative Partial Dispersion P'

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

#### $\Delta P$ 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

### Chemical Properties

CR	2
FR	3
SR	51.3
AR	2.3
PR	3.3

### 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