

SF5 673322.407

$n_d = 1.67270$

$v_d = 32.21$

$n_F - n_C = 0.020885$

$n_e = 1.67764$

$v_e = 31.97$

$n_F' - n_C' = 0.021195$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.63289
$n_{1970.1}$	1970.1	1.63785
$n_{1529.6}$	1529.6	1.64359
$n_{1060.0}$	1060.0	1.65104
n_t	1014.0	1.65206
n_s	852.1	1.65664
n_r	706.5	1.66327
n_C	656.3	1.66661
$n_{C'}$	643.8	1.66756
$n_{632.8}$	632.8	1.66846
n_D	589.3	1.67252
n_d	587.6	1.67270
n_e	546.1	1.67764
n_F	486.1	1.68750
$n_{F'}$	480.0	1.68876
n_g	435.8	1.69986
n_h	404.7	1.71069
n_i	365.0	1.73056
$n_{334.1}$	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	1.461418850
B_2	0.247713019
B_3	0.949995832
C_1	0.011182613
C_2	0.0508594669
C_3	112.04188800

Constants of Formula for dn/dT	
D_0	2.59E-06
D_1	1.76E-08
D_2	-2.03E-11
E_0	1.17E-06
E_1	1.09E-09
λ_{TK} [μm]	0.255

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	3.1	5.1	7.4	0.9	2.8	5.1
+20/+40	3.5	5.8	8.4	2.1	4.4	6.9
+60/+80	3.9	6.4	9.2	2.8	5.2	8.0

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.85	0.66
2325	0.89	0.74
1970	0.959	0.90
1530	0.995	0.987
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.996
500	0.997	0.993
460	0.995	0.988
436	0.993	0.982
420	0.989	0.973
405	0.983	0.959
400	0.980	0.950
390	0.967	0.92
380	0.950	0.88
370	0.91	0.80
365	0.88	0.73
350	0.63	0.31
334	0.20	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80} / λ_5	37/33

Remarks
lead containing glass type

Relative Partial Dispersion P	
$P_{s,t}$	0.2194
$P_{C,s}$	0.4775
$P_{d,C}$	0.2915
$P_{e,d}$	0.2366
$P_{g,F}$	0.5919
$P_{i,h}$	0.9513

Relative Partial Dispersion P'	
$P'_{s,t}$	0.2162
$P'_{C,s}$	0.5153
$P'_{d,C'}$	0.2423
$P'_{e,d}$	0.2331
$P'_{g,F'}$	0.5237
$P'_{i,h}$	0.9374

Deviation of Rel. Partial Disp. ΔP from the normal line	
$\Delta P_{C,t}$	-0.0010
$\Delta P_{C,s}$	-0.0005
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0023
$\Delta P_{i,g}$	0.0160

Chemical Properties	
CR	1
FR	1
SR	2
AR	2.3
PR	3

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	8.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	9.0
T_g [°C]	425
T_{10}^{13} [°C]	421
$T_{10}^{7.6}$ [°C]	580
c_p [J/(g·K)]	0.470
λ [W/(m·K)]	0.690
ρ [g/cm ³]	4.07
E [10^3 N/mm ²]	56
μ	0.233
K [10^{-6} mm ² /N]	2.29
$HK_{0.1/20}$	410
HG	2