

SF56A 785261.492

$n_d = 1.78470$

$v_d = 26.08$

$n_F - n_C = 0.030092$

$n_e = 1.79180$

$v_e = 25.87$

$n_F - n_C = 0.030603$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.73406
$n_{1970.1}$	1970.1	1.73925
$n_{1529.6}$	1529.6	1.74559
$n_{1060.0}$	1060.0	1.75473
n_t	1014.0	1.75606
n_s	852.1	1.76220
n_r	706.5	1.77136
n_C	656.3	1.77605
$n_{C'}$	643.8	1.77740
$n_{632.8}$	632.8	1.77866
n_D	589.3	1.78444
n_d	587.6	1.78470
n_e	546.1	1.79180
n_F	486.1	1.80615
$n_{F'}$	480.0	1.80800
n_g	435.8	1.82449
n_h	404.7	1.84092
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	

Constants of Dispersion Formula

B_1	1.705792590
B_2	0.344223052
B_3	1.096018280
C_1	0.013387470
C_2	0.0579561608
C_3	121.61602400

Constants of Formula for dn/dT

D_0	6.02E-06
D_1	1.70E-08
D_2	-2.61E-11
E_0	1.63E-06
E_1	1.59E-09
λ_{TK} [μm]	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	5.6	9.0	13.1	3.3	6.6	10.6
+20/+40	6.2	10.0	14.7	4.7	8.5	13.1
+60/+80	6.6	10.7	15.8	5.5	9.5	14.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.870	0.700
2325	0.900	0.760
1970	0.967	0.920
1530	0.996	0.989
1060	0.999	0.997
700	0.998	0.995
660	0.997	0.993
620	0.998	0.994
580	0.998	0.994
546	0.998	0.994
500	0.996	0.989
460	0.990	0.974
436	0.980	0.950
420	0.959	0.900
405	0.900	0.760
400	0.860	0.680
390	0.700	0.410
380	0.400	0.100
370	0.120	0.010
365	0.040	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 42/37

Remarks

lead containing glass type

Relative Partial Dispersion P

$P_{s,t}$	0.2040
$P_{C,s}$	0.4605
$P_{d,C}$	0.2874
$P_{e,d}$	0.2359
$P_{g,F}$	0.6098
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2006
$P'_{C,s}$	0.4967
$P'_{d,C'}$	0.2387
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.5390
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0042
$\Delta P_{C,s}$	-0.0032
$\Delta P_{F,e}$	0.0021
$\Delta P_{g,F}$	0.0098
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	1
SR	3.2
AR	2.2
PR	3.2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.8
T_g [°C]	429
T_{10}^{13} [°C]	426
$T_{10}^{7.6}$ [°C]	556
c_p [J/(g·K)]	0.400
λ [W/(m·K)]	0.690
ρ [g/cm ³]	4.92
E [10^3 N/mm ²]	57
μ	0.239
K [10^{-6} mm ² /N]	1.10
$HK_{0.1/20}$	380
HG	1