

SF4 755276.479

$n_d = 1.75520$

$v_d = 27.58$

$n_F - n_C = 0.027383$

$n_e = 1.76167$

$v_e = 27.37$

$n_F - n_C = 0.027829$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.70789
$n_{1970.1}$	1970.1	1.71294
$n_{1529.6}$	1529.6	1.71904
$n_{1060.0}$	1060.0	1.72765
n_t	1014.0	1.72888
n_s	852.1	1.73456
n_r	706.5	1.74300
n_C	656.3	1.74730
$n_{C'}$	643.8	1.74853
$n_{632.8}$	632.8	1.74969
n_D	589.3	1.75496
n_d	587.6	1.75520
n_e	546.1	1.76167
n_F	486.1	1.77468
$n_{F'}$	480.0	1.77636
n_g	435.8	1.79121
n_h	404.7	1.80589
n_i	365.0	1.83330
$n_{334.1}$	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	1.619578260
B_2	0.339493189
B_3	1.025669310
C_1	0.012550210
C_2	0.0544559822
C_3	117.65222200

Constants of Formula for dn/dT

D_0	5.60E-06
D_1	1.70E-08
D_2	-5.27E-11
E_0	1.54E-06
E_1	1.46E-09
λ_{TK} [μm]	0.266

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	5.1	8.1	11.8	2.8	5.7	9.4
+20/+40	5.7	9.2	13.3	4.3	7.7	11.8
+60/+80	6.0	9.7	14.2	4.9	8.5	13.0

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.850	0.660
2325	0.890	0.740
1970	0.963	0.910
1530	0.996	0.989
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	0.996	0.991
460	0.992	0.980
436	0.987	0.967
420	0.980	0.950
405	0.963	0.910
400	0.954	0.890
390	0.920	0.820
380	0.860	0.690
370	0.730	0.450
365	0.600	0.280
350	0.090	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 40/35

Remarks

lead containing glass type

Relative Partial Dispersion P

$P_{s,t}$	0.2076
$P_{C,s}$	0.4650
$P_{d,C}$	0.2886
$P_{e,d}$	0.2361
$P_{g,F}$	0.6036
$P_{i,h}$	1.0012

Relative Partial Dispersion P'

$P'_{s,t}$	0.2042
$P'_{C,s}$	0.5018
$P'_{d,C'}$	0.2398
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5337
$P'_{i,h}$	0.9851

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0032
$\Delta P_{C,s}$	-0.0022
$\Delta P_{F,e}$	0.0014
$\Delta P_{g,F}$	0.0062
$\Delta P_{i,g}$	0.0443

Chemical Properties

CR	1
FR	2
SR	4.3
AR	2.3
PR	3.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	8.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.9
T_g [°C]	420
T_{10}^{13} [°C]	415
$T_{10}^{7.6}$ [°C]	552
c_p [J/(g·K)]	0.410
λ [W/(m·K)]	0.650
ρ [g/cm ³]	4.79
E [10^3 N/mm ²]	56
μ	0.241
K [10^{-6} mm ² /N]	1.36
$HK_{0.1/20}$	390
HG	1