

SF1 717295.446

$n_d = 1.71736$
 $n_e = 1.72310$

$v_d = 29.51$
 $v_e = 29.29$

$n_F - n_C = 0.024307$
 $n_{F'} - n_{C'} = 0.024687$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.67352
$n_{1970.1}$	1970.1	1.67855
$n_{1529.6}$	1529.6	1.68449
$n_{1060.0}$	1060.0	1.69258
n_t	1014.0	1.69371
n_s	852.1	1.69888
n_r	706.5	1.70647
n_C	656.3	1.71031
$n_{C'}$	643.8	1.71141
$n_{632.8}$	632.8	1.71245
n_D	589.3	1.71715
n_d	587.6	1.71736
n_e	546.1	1.72310
n_F	486.1	1.73462
$n_{F'}$	480.0	1.73610
n_g	435.8	1.74916
n_h	404.7	1.76201
n_i	365.0	1.78580
$n_{334.1}$	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	1.559129230
B_2	0.284246288
B_3	0.968842926
C_1	0.012148100
C_2	0.0534549042
C_3	112.17480900

Constants of Formula for dn/dT

D_0	4.84E-06
D_1	1.70E-08
D_2	-4.52E-11
E_0	1.38E-06
E_1	1.26E-09
λ_{TK} [μm]	0.259

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	4.5	7.0	10.1	2.2	4.7	7.7
+20/+40	5.0	7.9	11.3	3.6	6.4	9.8
+60/+80	5.3	8.4	12.1	4.2	7.3	10.9

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.840	0.650
2325	0.880	0.730
1970	0.959	0.900
1530	0.994	0.985
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	0.994	0.984
436	0.990	0.976
420	0.984	0.961
405	0.971	0.930
400	0.967	0.920
390	0.950	0.870
380	0.910	0.790
370	0.840	0.640
365	0.760	0.500
350	0.300	0.030
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 39/34

Remarks

lead containing glass type

Relative Partial Dispersion P

$P_{s,t}$	0.2127
$P_{C,s}$	0.4705
$P_{d,C}$	0.2899
$P_{e,d}$	0.2364
$P_{g,F}$	0.5983
$P_{i,h}$	0.9791

Relative Partial Dispersion P'

$P'_{s,t}$	0.2094
$P'_{C,s}$	0.5078
$P'_{d,C'}$	0.2409
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5292
$P'_{i,h}$	0.9640

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0018
$\Delta P_{C,s}$	-0.0012
$\Delta P_{F,e}$	0.0009
$\Delta P_{g,F}$	0.0042
$\Delta P_{i,g}$	0.0307

Chemical Properties

CR	2
FR	1
SR	3.2
AR	2.3
PR	3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.8
T_g [°C]	417
T_{10}^{13} [°C]	415
$T_{10}^{7.6}$ [°C]	566
c_p [J/(g·K)]	0.430
λ [W/(m·K)]	0.660
ρ [g/cm ³]	4.46
E [10^3 N/mm ²]	56
μ	0.232
K [10^{-6} mm ² /N]	1.80
$HK_{0.1/20}$	390
HG	1