

SF10 728284.428

$n_d = 1.72825$
 $n_e = 1.73430$

$v_d = 28.41$
 $v_e = 28.19$

$n_F - n_C = 0.025633$
 $n_{F'} - n_{C'} = 0.026051$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.68218
$n_{1970.1}$	1970.1	1.68750
$n_{1529.6}$	1529.6	1.69378
$n_{1060.0}$	1060.0	1.70227
n_t	1014.0	1.70345
n_s	852.1	1.70887
n_r	706.5	1.71681
n_C	656.3	1.72085
$n_{C'}$	643.8	1.72200
$n_{632.8}$	632.8	1.72309
n_D	589.3	1.72803
n_d	587.6	1.72825
n_e	546.1	1.73430
n_F	486.1	1.74648
$n_{F'}$	480.0	1.74805
n_g	435.8	1.76198
n_h	404.7	1.77579
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	1.616259770
B_2	0.259229334
B_3	1.077623170
C_1	0.012753456
C_2	0.0581983954
C_3	116.60768000

Constants of Formula for dn/dT

D_0	5.31E-06
D_1	1.59E-08
D_2	-4.07E-11
E_0	1.28E-06
E_1	1.32E-09
λ_{TK} [μm]	0.270

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	4.8	7.3	10.3	2.5	4.9	7.9
+20/+40	5.3	8.1	11.6	3.8	6.6	10.0
+60/+80	5.6	8.6	12.4	4.4	7.4	11.1

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.860	0.690
2325	0.900	0.760
1970	0.967	0.920
1530	0.995	0.987
1060	0.999	0.997
700	0.998	0.995
660	0.997	0.993
620	0.997	0.993
580	0.998	0.995
546	0.998	0.995
500	0.996	0.989
460	0.991	0.978
436	0.984	0.961
420	0.967	0.920
405	0.910	0.790
400	0.860	0.690
390	0.670	0.370
380	0.360	0.060
370	0.080	
365	0.020	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 41/37

Remarks

lead containing glass type

Relative Partial Dispersion P

$P_{s,t}$	0.2111
$P_{C,s}$	0.4674
$P_{d,C}$	0.2888
$P_{e,d}$	0.2361
$P_{g,F}$	0.6046
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2077
$P'_{C,s}$	0.5042
$P'_{d,C'}$	0.2399
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5346
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0012
$\Delta P_{C,s}$	-0.0017
$\Delta P_{F,e}$	0.0017
$\Delta P_{g,F}$	0.0085
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1
AR	1.2
PR	2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.4
T_g [°C]	454
T_{10}^{13} [°C]	445
$T_{10}^{7.6}$ [°C]	595
c_p [J/(g·K)]	0.465
λ [W/(m·K)]	0.741
ρ [g/cm ³]	4.28
E [10^3 N/mm ²]	64
μ	0.232
K [10^{-6} mm ² /N]	1.95
$HK_{0.1/20}$	430
HG	1