

SF10
728284.428

$n_d = 1.72825$	$v_d = 28.41$	$n_F - n_C = 0.025633$
$n_e = 1.73430$	$v_e = 28.19$	$n_{F'} - n_{C'} = 0.026051$

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	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.862	0.690
2325	0.896	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	0.862	0.690
390	0.672	0.370
380	0.360	0.060
370	0.080	
365	0.020	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2111
$P_{C,s}$	0.4674
$P_{d,C}$	0.2888
$P_{e,d}$	0.2361
$P_{g,F}$	0.6046
$P_{i,h}$	
$P'_{s,t}$	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 Relative Partial Dispersions 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
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	1.61625977
B_2	0.259229334
B_3	1.07762317
C_1	0.0127534559
C_2	0.0581983954
C_3	116.60768

Color Code	
λ_{80}/λ_5	41/37
(* = λ_{70}/λ_5)	

Remarks	
lead containing glass type	

Constants of Dispersion dn/dT	
D_0	$5.31 \cdot 10^{-6}$
D_1	$1.59 \cdot 10^{-8}$
D_2	$-4.07 \cdot 10^{-11}$
E_0	$1.28 \cdot 10^{-6}$
E_1	$1.32 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.27

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.5
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.4
$T_g [^\circ C]$	454
$T_{10}^{13.0} [^\circ C]$	445
$T_{10}^{7.6} [^\circ C]$	595
$c_p [J/(g \cdot K)]$	0.465
$\lambda [W/(m \cdot K)]$	0.741
$\rho [g/cm^3]$	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
CR	1
FR	0
SR	1
AR	1.2
PR	2

Temperature Coefficients of Refractive Index						
[$^\circ C$]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	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