

LLF1
548458.294

$n_d = 1.54814$	$v_d = 45.75$	$n_F - n_C = 0.011981$
$n_e = 1.55099$	$v_e = 45.47$	$n_{F'} - n_{C'} = 0.012118$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.51865
$n_{1970.1}$	1970.1	1.52354
$n_{1529.6}$	1529.6	1.52884
$n_{1060.0}$	1060.0	1.53470
n_t	1014.0	1.53541
n_s	852.1	1.53845
n_r	706.5	1.54256
n_C	656.3	1.54457
$n_{C'}$	643.8	1.54513
$n_{632.8}$	632.8	1.54566
n_D	589.3	1.54803
n_d	587.6	1.54814
n_e	546.1	1.55099
n_F	486.1	1.55655
$n_{F'}$	480.0	1.55725
n_g	435.8	1.56333
n_h	404.7	1.56911
n_i	365.0	1.57932
$n_{334.1}$	334.1	1.59092
$n_{312.6}$	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	0.758	0.500
2325	0.821	0.610
1970	0.933	0.840
1530	0.996	0.990
1060	0.998	0.996
700	0.999	0.997
660	0.998	0.996
620	0.998	0.996
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.998	0.996
436	0.998	0.996
420	0.998	0.995
405	0.998	0.994
400	0.997	0.993
390	0.997	0.992
380	0.995	0.988
370	0.994	0.984
365	0.992	0.981
350	0.982	0.955
334	0.919	0.810
320	0.618	0.300
310	0.240	0.010
300	0.024	
290	0.002	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2537
$P_{C,s}$	0.5108
$P_{d,C}$	0.2983
$P_{e,d}$	0.2376
$P_{g,F}$	0.5660
$P_{i,h}$	0.8520
$P'_{s,t}$	0.2508
$P'_{C',s}$	0.5516
$P'_{d,C'}$	0.2484
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5017
$P'_{i,h}$	0.8424

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"

$\Delta P_{C,t}$	0.0025
$\Delta P_{C,s}$	0.0012
$\Delta P_{F,e}$	-0.0003
$\Delta P_{g,F}$	-0.0009
$\Delta P_{i,g}$	-0.0062

Constants of Dispersion Formula	
B_1	1.21640125
B_2	0.13366454
B_3	0.883399468
C_1	0.00857807248
C_2	0.0420143003
C_3	107.59306

Constants of Dispersion dn/dT	
D_0	$3.25 \cdot 10^{-7}$
D_1	$1.74 \cdot 10^{-8}$
D_2	$-6.12 \cdot 10^{-11}$
E_0	$6.53 \cdot 10^{-7}$
E_1	$2.58 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.233

Color Code	
λ_{80}/λ_5	33/31
(*= λ_{70}/λ_5)	

Remarks	
lead containing glass type	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.1
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.2
$T_g [^\circ C]$	431
$T_{10}^{13.0} [^\circ C]$	426
$T_{10}^{7.6} [^\circ C]$	628
$c_p [J/(g \cdot K)]$	0.650
$\lambda [W/(m \cdot K)]$	0.990
$\rho [g/cm^3]$	2.94
$E [10^3 N/mm^2]$	60
μ	0.208
$K [10^{-6} mm^2/N]$	3.05
$HK_{0.1/20}$	450
HG	3
CR	1
FR	0
SR	1
AR	2
PR	1

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	1.5	2.4	3.4	-0.6	0.3	1.3
+20/ +40	1.9	2.9	3.9	0.6	1.5	2.5
+60/ +80	2.0	3.0	4.1	1.0	2.0	3.0