

LAFN7 750350.438

$n_d = 1.74950$	$v_d = 34.95$	$n_F - n_C = 0.021445$
$n_e = 1.75458$	$v_e = 34.72$	$n_{F'} - n_{C'} = 0.021735$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.70211
$n_{1970.1}$	1970.1	1.70934
$n_{1529.6}$	1529.6	1.71726
$n_{1060.0}$	1060.0	1.72642
n_t	1014.0	1.72758
n_s	852.1	1.73264
n_r	706.5	1.73970
n_C	656.3	1.74319
$n_{C'}$	643.8	1.74418
$n_{632.8}$	632.8	1.74511
n_D	589.3	1.74931
n_d	587.6	1.74950
n_e	546.1	1.75458
n_F	486.1	1.76464
$n_{F'}$	480.0	1.76592
n_g	435.8	1.77713
n_h	404.7	1.78798
n_i	365.0	1.80762
$n_{334.1}$	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	0.382	0.090
2325	0.700	0.410
1970	0.937	0.850
1530	0.984	0.960
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.994
500	0.998	0.994
460	0.993	0.982
436	0.986	0.965
420	0.976	0.940
405	0.950	0.880
400	0.937	0.850
390	0.905	0.780
380	0.842	0.650
370	0.693	0.400
365	0.546	0.220
350	0.125	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2360
$P_{C,s}$	0.4921
$P_{d,C}$	0.2941
$P_{e,d}$	0.2369
$P_{g,F}$	0.5825
$P_{i,h}$	0.9160
$P'_{s,t}$	0.2329
$P'_{C',s}$	0.5311
$P'_{d,C'}$	0.2446
$P'_{e,d}$	0.2338
$P'_{g,F'}$	0.5158
$P'_{i,h}$	0.9037

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	0.0174
$\Delta P_{C,s}$	0.0078
$\Delta P_{F,e}$	-0.0011
$\Delta P_{g,F}$	-0.0025
$\Delta P_{i,g}$	-0.0093

Constants of Dispersion Formula	
B_1	1.66842615
B_2	0.298512803
B_3	1.0774376
C_1	0.0103159999
C_2	0.0469216348
C_3	82.5078509

Constants of Dispersion dn/dT	
D_0	$7.27 \cdot 10^{-6}$
D_1	$1.31 \cdot 10^{-8}$
D_2	$-3.32 \cdot 10^{-11}$
E_0	$8.88 \cdot 10^{-7}$
E_1	$9.32 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.248

Color Code	
λ_{80}/λ_5	40/35
(*= λ_{70}/λ_5)	

Remarks	
lead containing glass type	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.3
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.4
$T_g [^\circ C]$	500
$T_{10}^{13.0} [^\circ C]$	481
$T_{10}^{7.6} [^\circ C]$	573
$c_p [J/(g \cdot K)]$	
$\lambda [W/(m \cdot K)]$	0.770
$\rho [g/cm^3]$	4.38
$E [10^3 N/mm^2]$	80
μ	0.280
$K [10^{-6} mm^2/N]$	1.77
$HK_{0.1/20}$	520
HG	3
CR	3
FR	1
SR	53.3
AR	2.2
PR	4.3

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	6.0	7.8	9.7	3.7	5.4	7.2
+20/ +40	6.3	8.3	10.4	4.8	6.7	8.9
+60/ +80	6.5	8.6	10.9	5.3	7.4	9.7