

## 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

	$\lambda$ [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	

### Constants of Dispersion Formula

$B_1$	1.668426150
$B_2$	0.298512803
$B_3$	1.077437600
$C_1$	0.010316000
$C_2$	0.0469216348
$C_3$	82.50785090

### Constants of Formula for $dn/dT$

$D_0$	7.27E-06
$D_1$	1.31E-08
$D_2$	-3.32E-11
$E_0$	8.88E-07
$E_1$	9.32E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.248

### 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	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

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.380	0.090
2325	0.700	0.410
1970	0.940	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	0.940	0.850
390	0.910	0.780
380	0.840	0.650
370	0.690	0.400
365	0.550	0.220
350	0.130	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  40/35

### Remarks

lead containing glass type

### Relative Partial Dispersion P

$P_{s,t}$	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

### Relative Partial Dispersion P'

$P'_{s,t}$	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 Rel. Partial Disp.

#### $\Delta P$ 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

### Chemical Properties

CR	3
FR	1
SR	53.3
AR	2.2
PR	4.3

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	5.3
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.4
$T_g$ [°C]	500
$T_{10}^{13}$ [°C]	481
$T_{10}^{7.6}$ [°C]	573
$c_p$ [J/(g·K)]	
$\lambda$ [W/(m·K)]	0.770
$\rho$ [g/cm <sup>3</sup> ]	4.38
$E$ [ $10^3$ N/mm <sup>2</sup> ]	80
$\mu$	0.280
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	1.77
$HK_{0.1/20}$	520
HG	3