

## LF5 581409.322

$n_d = 1.58144$

$v_d = 40.85$

$n_F - n_C = 0.014233$

$n_e = 1.58482$

$v_e = 40.57$

$n_F - n_C = 0.014413$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.54966
$n_{1970.1}$	1970.1	1.55445
$n_{1529.6}$	1529.6	1.55975
$n_{1060.0}$	1060.0	1.56594
$n_t$	1014.0	1.56672
$n_s$	852.1	1.57014
$n_r$	706.5	1.57489
$n_C$	656.3	1.57723
$n_{C'}$	643.8	1.57789
$n_{632.8}$	632.8	1.57851
$n_D$	589.3	1.58132
$n_d$	587.6	1.58144
$n_e$	546.1	1.58482
$n_F$	486.1	1.59146
$n_{F'}$	480.0	1.59231
$n_g$	435.8	1.59964
$n_h$	404.7	1.60668
$n_i$	365.0	1.61926
$n_{334.1}$	334.1	1.63380
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

### Constants of Dispersion Formula

$B_1$	1.280356280
$B_2$	0.163505973
$B_3$	0.893930112
$C_1$	0.009298544
$C_2$	0.0449135769
$C_3$	110.49368500

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

$D_0$	-2.27E-06
$D_1$	9.71E-09
$D_2$	-2.83E-11
$E_0$	8.36E-07
$E_1$	9.95E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.228

### 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	0.8	1.9	3.1	-1.3	-0.2	0.9
+20/+40	0.8	2.0	3.4	-0.6	0.7	2.0
+60/+80	0.8	2.2	3.7	-0.3	1.1	2.6

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500		
2325	0.85	0.66
1970	0.95	0.87
1530	0.997	0.992
1060	0.999	0.998
700	0.999	0.998
660	0.999	0.998
620	0.999	0.998
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.998	0.995
436	0.998	0.994
420	0.997	0.993
405	0.997	0.992
400	0.997	0.992
390	0.994	0.984
380	0.989	0.973
370	0.984	0.961
365	0.981	0.954
350	0.950	0.88
334	0.80	0.57
320	0.32	0.04
310	0.04	
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_{5}$  34/31

### Remarks

lead containing glass type

### Relative Partial Dispersion P

$P_{s,t}$	0.2401
$P_{C,s}$	0.4981
$P_{d,C}$	0.2959
$P_{e,d}$	0.2373
$P_{g,F}$	0.5748
$P_{i,h}$	0.8836

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2371
$P'_{C,s}$	0.5378
$P'_{d,C'}$	0.2462
$P'_{e,d}$	0.2343
$P'_{g,F'}$	0.5091
$P'_{i,h}$	0.8726

### Deviation of Rel. Partial Disp.

#### $\Delta P$ from the normal line

$\Delta P_{C,t}$	-0.0006
$\Delta P_{C,s}$	0.0000
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0003
$\Delta P_{i,g}$	-0.0037

### Chemical Properties

CR	2
FR	0
SR	1
AR	2.3
PR	2

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.1
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	10.6
$T_g$ [°C]	419
$T_{10}^{13}$ [°C]	411
$T_{10}^{7.6}$ [°C]	585
$c_p$ [J/(g·K)]	0.657
$\lambda$ [W/(m·K)]	0.866
$\rho$ [g/cm <sup>3</sup> ]	3.22
$E$ [ $10^3$ N/mm <sup>2</sup> ]	59
$\mu$	0.223
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.80
$HK_{0.1/20}$	450
HG	2