

## SF2 648339.386

$n_d = 1.64769$

$v_d = 33.85$

$n_F - n_C = 0.019135$

$n_e = 1.65222$

$v_e = 33.60$

$n_F - n_C = 0.019412$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.61003
$n_{1970.1}$	1970.1	1.61494
$n_{1529.6}$	1529.6	1.62055
$n_{1060.0}$	1060.0	1.62766
$n_t$	1014.0	1.62861
$n_s$	852.1	1.63289
$n_r$	706.5	1.63902
$n_C$	656.3	1.64210
$n_{C'}$	643.8	1.64297
$n_{632.8}$	632.8	1.64379
$n_D$	589.3	1.64752
$n_d$	587.6	1.64769
$n_e$	546.1	1.65222
$n_F$	486.1	1.66123
$n_{F'}$	480.0	1.66238
$n_g$	435.8	1.67249
$n_h$	404.7	1.68233
$n_i$	365.0	1.70027
$n_{334.1}$	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

$B_1$	1.403018210
$B_2$	0.231767504
$B_3$	0.939056586
$C_1$	0.010579547
$C_2$	0.0493226978
$C_3$	112.40595500

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

$D_0$	1.10E-06
$D_1$	1.75E-08
$D_2$	-1.29E-11
$E_0$	1.08E-06
$E_1$	1.03E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.249

### 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	2.3	4.0	6.0	0.1	1.8	3.7
+20/+40	2.7	4.6	6.9	1.3	3.2	5.4
+60/+80	3.1	5.2	7.6	2.0	4.1	6.4

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.830	0.620
2325	0.870	0.710
1970	0.950	0.880
1530	0.994	0.985
1060	0.998	0.996
700	0.998	0.996
660	0.998	0.994
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.993
460	0.995	0.988
436	0.993	0.982
420	0.990	0.975
405	0.985	0.962
400	0.981	0.954
390	0.967	0.920
380	0.950	0.870
370	0.910	0.790
365	0.880	0.720
350	0.670	0.370
334	0.110	
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  37/33

### Remarks

lead containing glass type

### Relative Partial Dispersion P

$P_{s,t}$	0.2233
$P_{C,s}$	0.4813
$P_{d,C}$	0.2923
$P_{e,d}$	0.2367
$P_{g,F}$	0.5886
$P_{i,h}$	0.9376

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2201
$P'_{C,s}$	0.5196
$P'_{d,C'}$	0.2430
$P'_{e,d}$	0.2334
$P'_{g,F'}$	0.5209
$P'_{i,h}$	0.9242

### Deviation of Rel. Partial Disp.

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

$\Delta P_{C,t}$	-0.0009
$\Delta P_{C,s}$	-0.0005
$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	0.0017
$\Delta P_{i,g}$	0.0112

### Chemical Properties

CR	1
FR	0
SR	2
AR	2.3
PR	2

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.4
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.2
$T_g$ [°C]	441
$T_{10}^{13}$ [°C]	428
$T_{10}^{7.6}$ [°C]	600
$c_p$ [J/(g·K)]	0.498
$\lambda$ [W/(m·K)]	0.735
$\rho$ [g/cm <sup>3</sup> ]	3.86
$E$ [ $10^3$ N/mm <sup>2</sup> ]	55
$\mu$	0.227
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.62
$HK_{0.1/20}$	410
HG	2