

**F2G12**  
**621366.360**

$n_d = 1.62072$	$v_d = 36.56$	$n_F - n_C = 0.016979$
$n_e = 1.62474$	$v_e = 36.30$	$n_F' - n_C' = 0.017212$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.58584
$n_{1970.1}$	1970.1	1.59051
$n_{1529.6}$	1529.6	1.59593
$n_{1060.0}$	1060.0	1.60265
$n_t$	1014.0	1.60353
$n_s$	852.1	1.60744
$n_f$	706.5	1.61298
$n_C$	656.3	1.61573
$n_{C'}$	643.8	1.61652
$n_{632.8}$	632.8	1.61725
$n_D$	589.3	1.62057
$n_d$	587.6	1.62072
$n_e$	546.1	1.62474
$n_F$	486.1	1.63271
$n_{F'}$	480.0	1.63373
$n_g$	435.8	1.64261
$n_h$	404.7	1.65121
$n_i$	365.0	
$n_{334.1}$	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	
$B_1$	1.34702224
$B_2$	0.210037763
$B_3$	19.535076800
$C_1$	0.00980850553
$C_2$	0.0471788018
$C_3$	2279.1547000

Constants of Formula for $dn/dT$	
$D_0$	
$D_1$	
$D_2$	
$E_0$	
$E_1$	
$\lambda_{TK}$ [ $\mu\text{m}$ ]	

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						
+20/+40						
+60/+80						

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.890	0.750
2325	0.920	0.820
1970	0.971	0.930
1530	0.996	0.989
1060	0.999	0.997
700	0.995	0.988
660	0.994	0.984
620	0.992	0.979
580	0.989	0.972
546	0.985	0.963
500	0.974	0.940
460	0.940	0.850
436	0.840	0.650
420	0.690	0.400
405	0.430	0.120
400	0.330	0.060
390	0.120	0.000
380	0.020	
370	0.000	
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	45/39

Remarks
inquiry glass
radiation resistant glass

Relative Partial Dispersion	
$P_{s,t}$	0.2303
$P_{C,s}$	0.4883
$P_{d,C}$	0.2937
$P_{e,d}$	0.2369
$P_{g,F}$	0.5831
$P_{i,h}$	
$P'_{s,t}$	0.2272
$P'_{C,s}$	0.5271
$P'_{d,C'}$	0.2443
$P'_{e,d}$	0.2337
$P'_{g,F'}$	0.5163
$P'_{i,h}$	

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0002
$\Delta P_{C,s}$	0.0002
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0008
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.1
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.0
$T_g$ [°C]	435
$T_{10}^{13}$ [°C]	438
$T_{10}^{7.6}$ [°C]	604
$c_p$ [J/(g·K)]	0.530
$\lambda$ [W/(m·K)]	0.820
$\rho$ [g/cm <sup>3</sup> ]	3.60
$E$ [ $10^3$ N/mm <sup>2</sup> ]	58
$\mu$	0.222
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.79
$HK_{0.1/20}$	428
CR	1
FR	0
SR	1
AR	1.3
PR	2.3