

## 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
$n_r$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.891	0.750
2325	0.924	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	0.937
460	0.937	0.850
436	0.842	0.650
420	0.693	0.400
405	0.428	0.120
400	0.325	0.060
390	0.124	
380	0.019	
370		
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

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 Dispersions $\Delta P$ 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
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.34702224
$B_2$	0.210037763
$B_3$	19.5350768
$C_1$	0.00980850553
$C_2$	0.0471788018
$C_3$	2279.1547

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

Color Code	
$\lambda_{80}/\lambda_5$	45/39
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
radiation resistant glass	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	8.1
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	9.0
$T_g$ [ $^\circ C$ ]	435
$T_{10}^{13.0}$ [ $^\circ C$ ]	438
$T_{10}^{7.6}$ [ $^\circ C$ ]	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
<b>HG</b>	
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	1
<b>AR</b>	1.3
<b>PR</b>	2.3

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						
+20/ +40						
+60/ +80						