

F2G12 621366.361

$n_d = 1.62072$
 $n_e = 1.62474$

$v_d = 36.56$
 $v_e = 36.30$

$n_F - n_C = 0.016979$
 $n_{F'} - n_{C'} = 0.017212$

Refractive Indices		
	λ [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	

Constants of Dispersion Formula	
B_1	1.347022240
B_2	0.210037763
B_3	19.535076800
C_1	0.009808506
C_2	0.0471788018
C_3	2279.15470000

Constants of Formula for dn/dT	
D_0	2.19E-06
D_1	1.62E-08
D_2	-2.20E-11
E_0	9.55E-07
E_1	8.12E-10
λ_{TK} [μm]	0.250

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	2.7	4.3	6.0	0.6	2.1	3.8
+20/+40	3.1	4.8	6.7	1.7	3.3	5.2
+60/+80	3.3	5.2	7.2	2.3	4.1	6.1

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.84	0.65
2325	0.89	0.74
1970	0.959	0.90
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	0.981	0.953
500	0.967	0.92
460	0.92	0.81
436	0.80	0.58
420	0.62	0.30
405	0.35	0.07
400	0.25	0.03
390	0.12	0.00
380	0.02	
370	0.00	
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_{5}$	46/39

Remarks
radiation resistant glass
lead containing glass type

Relative Partial Dispersion P	
$P_{s,t}$	0.2303
$P_{C,s}$	0.4883
$P_{d,C}$	0.2937
$P_{e,d}$	0.2369
$P_{g,F}$	0.5831
$P_{i,h}$	
Relative Partial Dispersion P'	
$P'_{s,t}$	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 Rel. Partial Disp. ΔP 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
$\Delta P_{i,g}$	

Chemical Properties	
CR	1
FR	0
SR	1
AR	1.3
PR	2.3

Other Properties	
$\alpha_{-30/+70^\circ C}$ [$10^{-6}/K$]	7.6
$\alpha_{+20/+300^\circ C}$ [$10^{-6}/K$]	8.3
T_g [°C]	435
T_{10}^{13} [°C]	438
$T_{10}^{7.6}$ [°C]	612
c_p [J/(g*K)]	0.530
λ [W/(m*K)]	0.820
ρ [g/cm ³]	3.61
E [10^3 N/mm ²]	58
μ	0.222
K [10^{-6} mm ² /N]	2.79
$HK_{0.1/20}$	411