

## K5G20 523568.259

$n_d = 1.52344$	$v_d = 56.76$	$n_F - n_C = 0.009222$
$n_e = 1.52564$	$v_e = 56.47$	$n_{F'} - n_{C'} = 0.009308$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.49784
$n_{1970.1}$	1970.1	1.50236
$n_{1529.6}$	1529.6	1.50730
$n_{1060.0}$	1060.0	1.51258
$n_t$	1014.0	1.51319
$n_s$	852.1	1.51573
$n_r$	706.5	1.51906
$n_C$	656.3	1.52065
$n_{C'}$	643.8	1.52109
$n_{632.8}$	632.8	1.52151
$n_D$	589.3	1.52336
$n_d$	587.6	1.52344
$n_e$	546.1	1.52564
$n_F$	486.1	1.52987
$n_{F'}$	480.0	1.53040
$n_g$	435.8	1.53494
$n_h$	404.7	1.53919
$n_i$	365.0	1.54651
$n_{334.1}$	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	0.634	0.320
2325	0.733	0.460
1970	0.896	0.760
1530	0.990	0.976
1060	0.998	0.995
700	0.997	0.992
660	0.995	0.987
620	0.994	0.985
580	0.993	0.982
546	0.990	0.976
500	0.984	0.961
460	0.971	0.930
436	0.954	0.890
420	0.924	0.820
405	0.857	0.680
400	0.821	0.610
390	0.686	0.390
380	0.442	0.130
370	0.130	
365	0.029	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2764
$P_{C,s}$	0.5327
$P_{d,C}$	0.3027
$P_{e,d}$	0.2382
$P_{g,F}$	0.5500
$P_{i,h}$	0.7943
$P'_{s,t}$	0.2738
$P'_{C',s}$	0.5755
$P'_{d,C'}$	0.2523
$P'_{e,d}$	0.2360
$P'_{g,F'}$	0.4881
$P'_{i,h}$	0.7870

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	-0.0051
$\Delta P_{C,s}$	-0.0025
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0017
$\Delta P_{i,g}$	0.0065

Constants of Dispersion Formula	
$B_1$	1.14094396
$B_2$	0.14500119
$B_3$	37.4705786
$C_1$	0.00694945478
$C_2$	0.0310574444
$C_3$	4536.25624

Constants of Dispersion $dn/dT$	
$D_0$	$-2.22 \cdot 10^{-6}$
$D_1$	$8.45 \cdot 10^{-9}$
$D_2$	$-3.31 \cdot 10^{-11}$
$E_0$	$5.44 \cdot 10^{-7}$
$E_1$	$4.95 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.214

Color Code	
$\lambda_{80}/\lambda_5$	41/37
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
radiation resistant glass	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	10.3
$T_g [^\circ C]$	483
$T_{10}^{13.0} [^\circ C]$	501
$T_{10}^{7.6} [^\circ C]$	679
$c_p [J/(g \cdot K)]$	0.790
$\lambda [W/(m \cdot K)]$	1.000
$\rho [g/cm^3]$	2.59
$E [10^3 N/mm^2]$	68
$\mu$	0.222
$K [10^{-6} mm^2/N]$	
$HK_{0.1/20}$	510
<b>HG</b>	
<b>CR</b>	
<b>FR</b>	0
<b>SR</b>	1
<b>AR</b>	1
<b>PR</b>	0

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	0.8	1.5	2.2	-1.2	-0.6	0.1
+20/ +40	0.6	1.4	2.1	-0.7	0.1	0.8
+60/ +80	0.6	1.4	2.2	-0.5	0.3	1.1