

## LF5G15 584408.322

$n_d = 1.58397$	$v_d = 40.83$	$n_F - n_C = 0.014301$
$n_e = 1.58736$	$v_e = 40.55$	$n_{F'} - n_{C'} = 0.014484$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.55252
$n_{1970.1}$	1970.1	1.55707
$n_{1529.6}$	1529.6	1.56225
$n_{1060.0}$	1060.0	1.56842
$n_t$	1014.0	1.56920
$n_s$	852.1	1.57263
$n_r$	706.5	1.57739
$n_C$	656.3	1.57974
$n_{C'}$	643.8	1.58041
$n_{632.8}$	632.8	1.58103
$n_D$	589.3	1.58384
$n_d$	587.6	1.58397
$n_e$	546.1	1.58736
$n_F$	486.1	1.59404
$n_{F'}$	480.0	1.59489
$n_g$	435.8	1.60228
$n_h$	404.7	
$n_i$	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	0.693	0.400
2325	0.770	0.520
1970	0.912	0.795
1530	0.994	0.985
1060	0.999	0.998
700	0.997	0.992
660	0.996	0.989
620	0.995	0.987
580	0.993	0.984
546	0.991	0.979
500	0.985	0.963
460	0.966	0.918
436	0.917	0.805
420	0.833	0.632
405	0.657	0.350
400	0.569	0.244
390	0.350	0.070
380	0.134	
370	0.020	
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2397
$P_{C,s}$	0.4975
$P_{d,C}$	0.2957
$P_{e,d}$	0.2372
$P_{g,F}$	0.5759
$P_{i,h}$	
$P'_{s,t}$	0.2367
$P'_{C',s}$	0.5372
$P'_{d,C'}$	0.2460
$P'_{e,d}$	0.2342
$P'_{g,F'}$	0.5101
$P'_{i,h}$	

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	-0.0015
$\Delta P_{C,s}$	-0.0006
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0008
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.28887331
$B_2$	0.162818811
$B_3$	10.5579792
$C_1$	0.0092001566
$C_2$	0.0456954308
$C_3$	1275.44015

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

Color Code	
$\lambda_{80}/\lambda_5$	43/37
(* = $\lambda_{70}/\lambda_5$ )	

Remarks
radiation resistant glass

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	9.3
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	10.7
$T_g$ [ $^\circ C$ ]	407
$T_{10}^{13.0}$ [ $^\circ C$ ]	412
$T_{10}^{7.6}$ [ $^\circ C$ ]	578
$c_p$ [J/(g·K)]	0.600
$\lambda$ [W/(m·K)]	0.860
$\rho$ [g/cm <sup>3</sup> ]	3.22
$E$ [ $10^3$ N/mm <sup>2</sup> ]	60
$\mu$	0.228
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.77
$HK_{0.1/20}$	446
<b>HG</b>	
<b>CR</b>	2
<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						