

LAK9G15 691548.353

$n_d = 1.69064$
 $n_e = 1.69364$

$v_d = 54.76$
 $v_e = 54.53$

$n_F - n_C = 0.012612$
 $n_{F'} - n_{C'} = 0.012721$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.65362
$n_{1970.1}$	1970.1	1.66043
$n_{1529.6}$	1529.6	1.66783
$n_{1060.0}$	1060.0	1.67552
n_t	1014.0	1.67639
n_s	852.1	1.67999
n_r	706.5	1.68462
n_C	656.3	1.68680
$n_{C'}$	643.8	1.68741
$n_{632.8}$	632.8	1.68798
n_D	589.3	1.69052
n_d	587.6	1.69064
n_e	546.1	1.69364
n_F	486.1	1.69941
$n_{F'}$	480.0	1.70013
n_g	435.8	1.70630
n_h	404.7	1.71205
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	1.287736670
B_2	0.518244853
B_3	26.175610900
C_1	0.005575419
C_2	0.0223679524
C_3	1892.25330000

Constants of Formula for dn/dT	
D_0	2.19E-06
D_1	1.16E-08
D_2	-7.71E-12
E_0	4.82E-07
E_1	4.50E-10
λ_{TK} [μm]	0.193

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	3.0	3.8	4.5	0.7	1.5	2.1
+20/+40	3.0	3.9	4.7	1.5	2.4	3.2
+60/+80	3.2	4.1	5.0	2.0	2.9	3.8

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.48	0.16
2325	0.75	0.49
1970	0.963	0.91
1530	0.995	0.987
1060	0.998	0.996
700	0.994	0.986
660	0.993	0.982
620	0.991	0.978
580	0.989	0.973
546	0.985	0.964
500	0.971	0.93
460	0.92	0.81
436	0.80	0.57
420	0.63	0.32
405	0.38	0.09
400	0.29	0.04
390	0.12	0.01
380	0.03	0.00
370		
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80} / λ_5	46/38

Remarks
radiation resistant glass
total allowable cross section of bubbles: 0,1mm ² per 100 ccm

Relative Partial Dispersion P	
$P_{s,t}$	0.2852
$P_{C,s}$	0.5400
$P_{d,C}$	0.3040
$P_{e,d}$	0.2383
$P_{g,F}$	0.5462
$P_{i,h}$	
Relative Partial Dispersion P'	
$P'_{s,t}$	0.2828
$P'_{C,s}$	0.5834
$P'_{d,C'}$	0.2533
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4849
$P'_{i,h}$	

Deviation of Rel. Partial Disp. ΔP from the normal line	
$\Delta P_{C,t}$	0.0205
$\Delta P_{C,s}$	0.0095
$\Delta P_{F,e}$	-0.0018
$\Delta P_{g,F}$	-0.0055
$\Delta P_{i,g}$	

Chemical Properties	
CR	45689
FR	2
SR	53
AR	1.3
PR	4.3

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	6.3
$\alpha_{+20/+300^\circ\text{C}}$ [10 ⁻⁶ /K]	7.6
T_g [°C]	634
T_{10}^{13} [°C]	635
$T_{10}^{7.6}$ [°C]	710
c_p [J/(g*K)]	0.660
λ [W/(m*K)]	0.880

ρ [g/cm ³]	3.53
E [10 ³ N/mm ²]	108
μ	0.288
K [10 ⁻⁶ mm ² /N]	1.86
$HK_{0.1/20}$	721