

**LAK9G15**  
**691548.353**

$n_d = 1,69064$	$v_d = 54,76$	$n_F - n_C = 0,012612$
$n_e = 1,69364$	$v_e = 54,53$	$n_F' - n_C' = 0,012721$

Refractive Indices		
	$\lambda$ [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	
$B_1$	1,28773667
$B_2$	0,518244853
$B_3$	26,175610900
$C_1$	0,00557541920
$C_2$	0,0223679524
$C_3$	1892,2533000

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

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						
+20/+40						
+60/+80						

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0,480	0,160
2325	0,750	0,490
1970	0,963	0,910
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	0,930
460	0,920	0,810
436	0,800	0,570
420	0,630	0,320
405	0,380	0,090
400	0,290	0,040
390	0,120	0,010
380	0,030	0,000
370		
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_{5}$	46/38

Remarks
radiation resistant glass
total allowable cross section of bubbles: 0.1mm <sup>2</sup> per 100 ccm

Relative Partial Dispersion	
$P_{s,t}$	0,2852
$P_{C,s}$	0,5400
$P_{d,C}$	0,3040
$P_{e,d}$	0,2383
$P_{g,F}$	0,5462
$P_{i,h}$	
$P'_{s,t}$	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. $\Delta P$ 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
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	6,3
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	7,6
$T_g$ [°C]	634
$T_{10}^{13}$ [°C]	635
$T_{10}^{7.6}$ [°C]	710
$c_p$ [J/(g*K)]	0,660
$\lambda$ [W/(m*K)]	0,880
$\rho$ [g/cm <sup>3</sup> ]	3,53
$E$ [ $10^3$ N/mm <sup>2</sup> ]	108
$\mu$	0,288
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	1,86
$HK_{0.1/20}$	721
$CR$	1-2
$FR$	2
$SR$	53
$AR$	1,3
$PR$	4,3