

**N-LAK9**  
**691547.351**

$n_d = 1.69100$	$v_d = 54.71$	$n_F - n_C = 0.012631$
$n_e = 1.69401$	$v_e = 54.48$	$n_F' - n_C' = 0.012738$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.65294
$n_{1970.1}$	1970.1	1.66032
$n_{1529.6}$	1529.6	1.66804
$n_{1060.0}$	1060.0	1.67584
$n_t$	1014.0	1.67672
$n_s$	852.1	1.68033
$n_f$	706.5	1.68497
$n_C$	656.3	1.68716
$n_{C'}$	643.8	1.68777
$n_{632.8}$	632.8	1.68834
$n_D$	589.3	1.69089
$n_d$	587.6	1.69100
$n_e$	546.1	1.69401
$n_F$	486.1	1.69979
$n_{F'}$	480.0	1.70051
$n_g$	435.8	1.70667
$n_h$	404.7	1.71239
$n_i$	365.0	1.72219
$n_{334.1}$	334.1	1.73281
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
$B_1$	1.46231905
$B_2$	0.344399589
$B_3$	1.155083720
$C_1$	0.00724270156
$C_2$	0.0243353131
$C_3$	85.4686868

Constants of Formula for $dn/dT$	
$D_0$	2.11E-06
$D_1$	1.11E-08
$D_2$	1.82E-12
$E_0$	4.74E-07
$E_1$	-3.47E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.146

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	3.9	4.6	0.8	1.6	2.3
+20/+40	2.9	3.7	4.4	1.5	2.2	2.9
+60/+80	3.1	3.8	4.4	2.0	2.7	3.3

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.460	0.140
2325	0.710	0.420
1970	0.940	0.860
1530	0.986	0.966
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.997	0.992
460	0.994	0.984
436	0.991	0.977
420	0.988	0.970
405	0.983	0.957
400	0.980	0.950
390	0.971	0.930
380	0.954	0.890
370	0.930	0.830
365	0.910	0.780
350	0.790	0.550
334	0.530	0.200
320	0.210	0.020
310	0.070	0.000
300	0.010	
290	0.000	
280	0.000	
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	37/31

Remarks
step 0.5 available

Relative Partial Dispersion	
$P_{s,t}$	0.2859
$P_{C,s}$	0.5409
$P_{d,C}$	0.3043
$P_{e,d}$	0.2384
$P_{g,F}$	0.5447
$P_{i,h}$	0.7756
$P'_{s,t}$	0.2834
$P'_{C,s}$	0.5844
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4835
$P'_{i,h}$	0.7690

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0223
$\Delta P_{C,s}$	0.0105
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0071
$\Delta P_{i,g}$	-0.0367

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.3
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.5
$T_g$ [°C]	656
$T_{10}^{13}$ [°C]	645
$T_{10}^{7.6}$ [°C]	722
$c_p$ [J/(g·K)]	0.649
$\lambda$ [W/(m·K)]	0.908
$\rho$ [g/cm <sup>3</sup> ]	3.51
$E$ [ $10^3$ N/mm <sup>2</sup> ]	110
$\mu$	0.285
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	1.83
$HK_{0.1/20}$	700
HG	3
CR	3
FR	3
SR	52
AR	1.2
PR	4.3