

## N-LAK8 713538.375

$n_d = 1.71300$	$v_d = 53.83$	$n_F - n_C = 0.013245$
$n_e = 1.71616$	$v_e = 53.61$	$n_F' - n_C' = 0.013359$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.67294
$n_{1970.1}$	1970.1	1.68075
$n_{1529.6}$	1529.6	1.68890
$n_{1060.0}$	1060.0	1.69710
$n_t$	1014.0	1.69802
$n_s$	852.1	1.70181
$n_f$	706.5	1.70668
$n_C$	656.3	1.70897
$n_{C'}$	643.8	1.70962
$n_{632.8}$	632.8	1.71022
$n_D$	589.3	1.71289
$n_d$	587.6	1.71300
$n_e$	546.1	1.71616
$n_F$	486.1	1.72222
$n_{F'}$	480.0	1.72297
$n_g$	435.8	1.72944
$n_h$	404.7	1.73545
$n_i$	365.0	1.74573
$n_{334.1}$	334.1	1.75687
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
$B_1$	1.33183167
$B_2$	0.546623206
$B_3$	1.190840150
$C_1$	0.00620023871
$C_2$	0.0216465439
$C_3$	82.5827736

Constants of Formula for dn/dT	
$D_0$	4.10E-06
$D_1$	1.25E-08
$D_2$	-1.60E-11
$E_0$	4.30E-07
$E_1$	6.29E-10
$\lambda_{TK}$ [ $\mu m$ ]	0.213

Temperature Coefficients of the 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	4.0	4.7	5.4	1.7	2.4	3.0
+20/+40	4.1	5.0	5.8	2.6	3.5	4.3
+60/+80	4.3	5.2	6.2	3.1	4.1	5.0

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.400	0.100
2325	0.710	0.420
1970	0.950	0.880
1530	0.992	0.979
1060	0.998	0.994
700	0.998	0.996
660	0.998	0.995
620	0.998	0.994
580	0.998	0.994
546	0.998	0.995
500	0.998	0.994
460	0.995	0.987
436	0.992	0.979
420	0.988	0.970
405	0.981	0.952
400	0.977	0.940
390	0.965	0.920
380	0.950	0.870
370	0.910	0.780
365	0.880	0.720
350	0.740	0.470
334	0.510	0.190
320	0.280	0.040
310	0.140	0.010
300	0.040	
290	0.010	
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	37/30

Remarks	
(*= $\lambda_{70}/\lambda_5$ )	

Relative Partial Dispersion	
$P_{s,t}$	0.2861
$P_{C,s}$	0.5408
$P_{d,C}$	0.3042
$P_{e,d}$	0.2383
$P_{g,F}$	0.5450
$P_{i,h}$	0.7764
$P'_{s,t}$	0.2836
$P'_{C,s}$	0.5843
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4838
$P'_{i,h}$	0.7698

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0266
$\Delta P_{C,s}$	0.0124
$\Delta P_{F,e}$	-0.0026
$\Delta P_{g,F}$	-0.0083
$\Delta P_{i,g}$	-0.0428

Other Properties	
$\alpha_{-30/+70^{\circ}C}$ [ $10^{-6}/K$ ]	5.6
$\alpha_{+20/+300^{\circ}C}$ [ $10^{-6}/K$ ]	6.7
$T_g$ [ $^{\circ}C$ ]	643
$T_{10}^{13}$ [ $^{\circ}C$ ]	635
$T_{10}^{7.6}$ [ $^{\circ}C$ ]	717
$c_p$ [J/(g*K)]	0.620
$\lambda$ [W/(m*K)]	0.840
$\rho$ [g/cm $^3$ ]	3.75
$E$ [ $10^3$ N/mm $^2$ ]	115
$\mu$	0.289
$K$ [ $10^{-6}$ mm $^2/N$ ]	1.81
$HK_{0.1/20}$	740
HG	2
CR	3
FR	2
SR	52.3
AR	1
PR	3.3