

## 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
$n_r$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.398	0.100
2325	0.707	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	0.943
390	0.965	0.915
380	0.946	0.870
370	0.905	0.780
365	0.877	0.720
350	0.739	0.470
334	0.509	0.185
320	0.276	0.040
310	0.137	0.010
300	0.044	
290	0.010	
280		
270		
260		
250		

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 Dispersions $\Delta P$ 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

Constants of Dispersion Formula	
$B_1$	1.33183167
$B_2$	0.546623206
$B_3$	1.19084015
$C_1$	0.00620023871
$C_2$	0.0216465439
$C_3$	82.5827736

Constants of Dispersion $dn/dT$	
$D_0$	$4.10 \cdot 10^{-6}$
$D_1$	$1.25 \cdot 10^{-8}$
$D_2$	$-1.60 \cdot 10^{-11}$
$E_0$	$4.30 \cdot 10^{-7}$
$E_1$	$6.29 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.213

Color Code	
$\lambda_{80}/\lambda_5$	37/30
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

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
$T_{10}^{13.0} [^\circ C]$	635
$T_{10}^{7.6} [^\circ C]$	717
$c_p [J/(g \cdot K)]$	0.620
$\lambda [W/(m \cdot K)]$	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

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	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