

**N-LAK14**  
**697554.363**

$n_d = 1.69680$	$v_d = 55.41$	$n_F - n_C = 0.012575$
$n_e = 1.69980$	$v_e = 55.19$	$n_{F'} - n_{C'} = 0.012679$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.65783
$n_{1970.1}$	1970.1	1.66554
$n_{1529.6}$	1529.6	1.67357
$n_{1060.0}$	1060.0	1.68157
$n_t$	1014.0	1.68246
$n_s$	852.1	1.68612
$n_r$	706.5	1.69077
$n_C$	656.3	1.69297
$n_{C'}$	643.8	1.69358
$n_{632.8}$	632.8	1.69415
$n_D$	589.3	1.69669
$n_d$	587.6	1.69680
$n_e$	546.1	1.69980
$n_F$	486.1	1.70554
$n_{F'}$	480.0	1.70626
$n_g$	435.8	1.71237
$n_h$	404.7	1.71804
$n_i$	365.0	1.72772
$n_{334.1}$	334.1	1.73819
$n_{312.6}$	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	0.382	0.090
2325	0.672	0.370
1970	0.933	0.840
1530	0.984	0.960
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.997	0.992
580	0.997	0.993
546	0.998	0.995
500	0.997	0.992
460	0.994	0.984
436	0.991	0.977
420	0.988	0.971
405	0.984	0.960
400	0.981	0.953
390	0.971	0.930
380	0.959	0.900
370	0.933	0.840
365	0.915	0.800
350	0.821	0.610
334	0.642	0.330
320	0.428	0.120
310	0.239	0.040
300	0.089	
290	0.019	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2903
$P_{C,s}$	0.5447
$P_{d,C}$	0.3049
$P_{e,d}$	0.2384
$P_{g,F}$	0.5427
$P_{i,h}$	0.7701
$P'_{s,t}$	0.2880
$P'_{C',s}$	0.5885
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4819
$P'_{i,h}$	0.7638

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	0.0273
$\Delta P_{C,s}$	0.0127
$\Delta P_{F,e}$	-0.0026
$\Delta P_{g,F}$	-0.0079
$\Delta P_{i,g}$	-0.0386

Constants of Dispersion Formula	
$B_1$	1.50781212
$B_2$	0.318866829
$B_3$	1.14287213
$C_1$	0.00746098727
$C_2$	0.0242024834
$C_3$	80.9565165

Constants of Dispersion $dn/dT$	
$D_0$	$2.68 \cdot 10^{-6}$
$D_1$	$1.15 \cdot 10^{-8}$
$D_2$	$-1.44 \cdot 10^{-11}$
$E_0$	$3.72 \cdot 10^{-7}$
$E_1$	$5.53 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.226

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

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.5
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.9
$T_g [^\circ C]$	661
$T_{10}^{13.0} [^\circ C]$	653
$T_{10}^{7.6} [^\circ C]$	734
$c_p [J/(g \cdot K)]$	0.630
$\lambda [W/(m \cdot K)]$	0.890
$\rho [g/cm^3]$	3.63
$E [10^3 N/mm^2]$	111
$\mu$	0.283
$K [10^{-6} mm^2/N]$	1.73
$HK_{0.1/20}$	730
<b>HG</b>	2
<b>CR</b>	3
<b>FR</b>	2
<b>SR</b>	52.3
<b>AR</b>	1
<b>PR</b>	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	3.2	3.8	4.4	0.9	1.5	2.1
+20/ +40	3.2	4.0	4.7	1.8	2.5	3.2
+60/ +80	3.4	4.2	5.0	2.2	3.0	3.8