

**N-LAK12**  
**678552.410**

$n_d = 1.67790$	$v_d = 55.20$	$n_F - n_C = 0.012281$
$n_e = 1.68083$	$v_e = 54.92$	$n_{F'} - n_{C'} = 0.012396$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.64541
$n_{1970.1}$	1970.1	1.65107
$n_{1529.6}$	1529.6	1.65713
$n_{1060.0}$	1060.0	1.66366
$n_t$	1014.0	1.66443
$n_s$	852.1	1.66772
$n_r$	706.5	1.67209
$n_C$	656.3	1.67419
$n_{C'}$	643.8	1.67478
$n_{632.8}$	632.8	1.67533
$n_D$	589.3	1.67779
$n_d$	587.6	1.67790
$n_e$	546.1	1.68083
$n_F$	486.1	1.68647
$n_{F'}$	480.0	1.68717
$n_g$	435.8	1.69320
$n_h$	404.7	1.69882
$n_i$	365.0	1.70842
$n_{334.1}$	334.1	1.71881
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
$B_1$	1.17365704
$B_2$	0.588992398
$B_3$	0.978014394
$C_1$	0.00577031797
$C_2$	0.0200401678
$C_3$	95.4873482

Constants of Dispersion $dn/dT$	
$D_0$	$-5.67 \cdot 10^{-6}$
$D_1$	$8.27 \cdot 10^{-9}$
$D_2$	$1.27 \cdot 10^{-12}$
$E_0$	$5.25 \cdot 10^{-7}$
$E_1$	$6.30 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.162

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
[°C]	1060.0	e	g	1060.0	e	g
-40/ -20	-1.0	-0.3	0.3	-3.2	-2.6	-2.0
+20/ +40	-1.2	-0.4	0.3	-2.7	-1.9	-1.2
+60/ +80	-1.2	-0.3	0.5	-2.3	-1.5	-0.7

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.592	0.270
2325	0.764	0.510
1970	0.937	0.850
1530	0.990	0.975
1060	0.997	0.992
700	0.997	0.993
660	0.996	0.989
620	0.995	0.988
580	0.996	0.990
546	0.996	0.991
500	0.994	0.986
460	0.987	0.968
436	0.983	0.958
420	0.981	0.952
405	0.977	0.943
400	0.976	0.940
390	0.967	0.920
380	0.946	0.870
370	0.910	0.790
365	0.882	0.730
350	0.733	0.460
334	0.468	0.150
320	0.152	0.010
310	0.032	
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80}/\lambda_5$	37/31
(*= $\lambda_{70}/\lambda_5$ )	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2673
$P_{C,s}$	0.5269
$P_{d,C}$	0.3024
$P_{e,d}$	0.2383
$P_{g,F}$	0.5485
$P_{i,h}$	0.7818
$P'_{s,t}$	0.2648
$P'_{C,s}$	0.5695
$P'_{d,C'}$	0.2521
$P'_{e,d}$	0.2361
$P'_{g,F'}$	0.4866
$P'_{i,h}$	0.7746

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

$\Delta P_{C,t}$	-0.0126
$\Delta P_{C,s}$	-0.0047
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	-0.0226

### Other Properties

$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.6
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.3
$T_g [^\circ C]$	614
$T_{10}^{13.0} [^\circ C]$	606
$T_{10}^{7.6} [^\circ C]$	714
$c_p [J/(g \cdot K)]$	
$\lambda [W/(m \cdot K)]$	
$\rho [g/cm^3]$	4.10
$E [10^3 N/mm^2]$	87
$\mu$	0.288
$K [10^{-6} mm^2/N]$	1.44
$HK_{0.1/20}$	560
HG	6
B	1
CR	3
FR	1
SR	53.3
AR	3.3
PR	4.3