

## N-LAK34 729545.402

$n_d = 1.72916$	$v_d = 54.50$	$n_F - n_C = 0.013379$
$n_e = 1.73235$	$v_e = 54.27$	$n_{F'} - n_{C'} = 0.013493$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.68925
$n_{1970.1}$	1970.1	1.69695
$n_{1529.6}$	1529.6	1.70500
$n_{1060.0}$	1060.0	1.71315
$n_t$	1014.0	1.71407
$n_s$	852.1	1.71787
$n_r$	706.5	1.72277
$n_C$	656.3	1.72509
$n_{C'}$	643.8	1.72574
$n_{632.8}$	632.8	1.72634
$n_D$	589.3	1.72904
$n_d$	587.6	1.72916
$n_e$	546.1	1.73235
$n_F$	486.1	1.73847
$n_{F'}$	480.0	1.73923
$n_g$	435.8	1.74575
$n_h$	404.7	1.75180
$n_i$	365.0	1.76214
$n_{334.1}$	334.1	1.77331
$n_{312.6}$	312.6	1.78359
$n_{296.7}$	296.7	1.79296
$n_{280.4}$	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	0.672	0.370
1970	0.937	0.850
1530	0.984	0.960
1060	0.998	0.995
700	0.999	0.997
660	0.999	0.997
620	0.998	0.996
580	0.998	0.995
546	0.999	0.997
500	0.998	0.994
460	0.995	0.987
436	0.992	0.979
420	0.989	0.972
405	0.983	0.959
400	0.981	0.952
390	0.976	0.940
380	0.963	0.910
370	0.941	0.860
365	0.924	0.820
350	0.852	0.670
334	0.713	0.430
320	0.525	0.200
310	0.377	0.070
300	0.281	0.030
290	0.168	0.010
280	0.073	
270	0.014	
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2841
$P_{C,s}$	0.5398
$P_{d,C}$	0.3042
$P_{e,d}$	0.2384
$P_{g,F}$	0.5443
$P_{i,h}$	0.7726
$P'_{s,t}$	0.2817
$P'_{C',s}$	0.5833
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4832
$P'_{i,h}$	0.7661

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

$\Delta P_{C,t}$	0.0204
$\Delta P_{C,s}$	0.0099
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0079
$\Delta P_{i,g}$	-0.0423

Constants of Dispersion Formula	
$B_1$	1.26661442
$B_2$	0.665919318
$B_3$	1.1249612
$C_1$	0.00589278062
$C_2$	0.0197509041
$C_3$	78.8894174

Constants of Dispersion $dn/dT$	
$D_0$	$1.96 \cdot 10^{-6}$
$D_1$	$9.65 \cdot 10^{-9}$
$D_2$	$4.40 \cdot 10^{-12}$
$E_0$	$4.91 \cdot 10^{-7}$
$E_1$	$5.28 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.161

Color Code	
$\lambda_{80}/\lambda_5$	37/28
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.8
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.9
$T_g [^\circ C]$	668
$T_{10}^{13.0} [^\circ C]$	668
$T_{10}^{7.6} [^\circ C]$	740
$c_p [J/(g \cdot K)]$	0.520
$\lambda [W/(m \cdot K)]$	0.820
$\rho [g/cm^3]$	4.02
$E [10^3 N/mm^2]$	117
$\mu$	0.290
$K [10^{-6} mm^2/N]$	1.52
$HK_{0.1/20}$	740
<b>HG</b>	2
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	52.3
<b>AR</b>	1
<b>PR</b>	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	3.1	3.9	4.6	0.8	1.5	2.2
+20/ +40	3.0	3.8	4.6	1.5	2.3	3.1
+60/ +80	3.1	4.0	4.9	2.0	2.9	3.7