

## N-LAF7 749348.373

$n_d = 1.74950$	$v_d = 34.82$	$n_F - n_C = 0.021525$
$n_e = 1.75459$	$v_e = 34.56$	$n_{F'} - n_{C'} = 0.021833$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.70344
$n_{1970.1}$	1970.1	1.71021
$n_{1529.6}$	1529.6	1.71772
$n_{1060.0}$	1060.0	1.72659
$n_t$	1014.0	1.72773
$n_s$	852.1	1.73272
$n_r$	706.5	1.73972
$n_C$	656.3	1.74320
$n_{C'}$	643.8	1.74419
$n_{632.8}$	632.8	1.74511
$n_D$	589.3	1.74931
$n_d$	587.6	1.74950
$n_e$	546.1	1.75459
$n_F$	486.1	1.76472
$n_{F'}$	480.0	1.76602
$n_g$	435.8	1.77741
$n_h$	404.7	1.78854
$n_i$	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	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	0.679	0.380
2325	0.867	0.700
1970	0.976	0.940
1530	0.996	0.990
1060	0.998	0.996
700	0.997	0.992
660	0.995	0.988
620	0.994	0.985
580	0.992	0.980
546	0.988	0.970
500	0.971	0.930
460	0.937	0.850
436	0.901	0.770
420	0.857	0.680
405	0.782	0.540
400	0.752	0.490
390	0.657	0.350
380	0.515	0.190
370	0.302	0.050
365	0.170	0.012
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2317
$P_{C,s}$	0.4870
$P_{d,C}$	0.2928
$P_{e,d}$	0.2366
$P_{g,F}$	0.5894
$P_{i,h}$	
$P'_{s,t}$	0.2284
$P'_{C',s}$	0.5254
$P'_{d,C'}$	0.2434
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5218
$P'_{i,h}$	

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0029
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0042
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.74028764
$B_2$	0.226710554
$B_3$	1.32525548
$C_1$	0.010792558
$C_2$	0.0538626639
$C_3$	106.268665

Constants of Dispersion $dn/dT$	
$D_0$	$9.21 \cdot 10^{-7}$
$D_1$	$1.10 \cdot 10^{-8}$
$D_2$	$-1.75 \cdot 10^{-11}$
$E_0$	$7.67 \cdot 10^{-7}$
$E_1$	$1.10 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.264

Color Code	
$\lambda_{80}/\lambda_5$	46/36
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.3
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.4
$T_g [^\circ C]$	568
$T_{10}^{13.0} [^\circ C]$	563
$T_{10}^{7.6} [^\circ C]$	669
$c_p [J/(g \cdot K)]$	0.620
$\lambda [W/(m \cdot K)]$	0.830
$\rho [g/cm^3]$	3.73
$E [10^3 N/mm^2]$	96
$\mu$	0.271
$K [10^{-6} mm^2/N]$	2.57
$HK_{0.1/20}$	530
<b>HG</b>	5
<b>CR</b>	1
<b>FR</b>	2
<b>SR</b>	51.3
<b>AR</b>	1.2
<b>PR</b>	1.2

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	2.5	3.9	5.6	0.2	1.5	3.1
+20/ +40	2.6	4.3	6.3	1.1	2.7	4.7
+60/ +80	2.7	4.6	6.8	1.6	3.4	5.6