

## N-LAF2 744449.430

$n_d = 1.74397$	$v_d = 44.85$	$n_F - n_C = 0.016588$
$n_e = 1.74791$	$v_e = 44.57$	$n_{F'} - n_{C'} = 0.016780$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.70582
$n_{1970.1}$	1970.1	1.71169
$n_{1529.6}$	1529.6	1.71816
$n_{1060.0}$	1060.0	1.72563
$n_t$	1014.0	1.72656
$n_s$	852.1	1.73064
$n_r$	706.5	1.73627
$n_C$	656.3	1.73903
$n_{C'}$	643.8	1.73981
$n_{632.8}$	632.8	1.74054
$n_D$	589.3	1.74383
$n_d$	587.6	1.74397
$n_e$	546.1	1.74791
$n_F$	486.1	1.75562
$n_{F'}$	480.0	1.75659
$n_g$	435.8	1.76500
$n_h$	404.7	1.77298
$n_i$	365.0	1.78703
$n_{334.1}$	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	0.693	0.400
2325	0.862	0.690
1970	0.971	0.930
1530	0.996	0.990
1060	0.999	0.997
700	0.998	0.996
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.998	0.994
500	0.993	0.983
460	0.985	0.962
436	0.976	0.940
420	0.965	0.915
405	0.944	0.865
400	0.933	0.840
390	0.896	0.760
380	0.831	0.630
370	0.713	0.430
365	0.626	0.310
350	0.229	0.025
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2459
$P_{C,s}$	0.5057
$P_{d,C}$	0.2979
$P_{e,d}$	0.2377
$P_{g,F}$	0.5656
$P_{i,h}$	0.8470
$P'_{s,t}$	0.2431
$P'_{C',s}$	0.5464
$P'_{d,C'}$	0.2481
$P'_{e,d}$	0.2350
$P'_{g,F'}$	0.5012
$P'_{i,h}$	0.8373

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

$\Delta P_{C,t}$	-0.0061
$\Delta P_{C,s}$	-0.0017
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0027
$\Delta P_{i,g}$	-0.0202

Constants of Dispersion Formula	
$B_1$	1.80984227
$B_2$	0.15729555
$B_3$	1.0930037
$C_1$	0.0101711622
$C_2$	0.0442431765
$C_3$	100.687748

Constants of Dispersion $dn/dT$	
$D_0$	$-3.64 \cdot 10^{-6}$
$D_1$	$9.20 \cdot 10^{-9}$
$D_2$	$-6.00 \cdot 10^{-12}$
$E_0$	$6.43 \cdot 10^{-7}$
$E_1$	$6.11 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.22

Color Code	
$\lambda_{80}/\lambda_5$	40/34
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.1
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.1
$T_g [^\circ C]$	653
$T_{10}^{13.0} [^\circ C]$	645
$T_{10}^{7.6} [^\circ C]$	742
$c_p [J/(g \cdot K)]$	0.510
$\lambda [W/(m \cdot K)]$	0.670
$\rho [g/cm^3]$	4.30
$E [10^3 N/mm^2]$	94
$\mu$	0.288
$K [10^{-6} mm^2/N]$	1.42
$HK_{0.1/20}$	530
<b>HG</b>	6
<b>CR</b>	2
<b>FR</b>	3
<b>SR</b>	52.2
<b>AR</b>	1
<b>PR</b>	2.2

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	0.0	1.0	2.1	-2.3	-1.3	-0.3
+20/ +40	-0.1	1.0	2.3	-1.6	-0.5	0.7
+60/ +80	-0.1	1.2	2.5	-1.2	0.0	1.3