

## N-LAF21 788475.428

$n_d = 1.78800$	$v_d = 47.49$	$n_F - n_C = 0.016593$
$n_e = 1.79195$	$v_e = 47.25$	$n_F' - n_C' = 0.016761$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.74419
$n_{1970.1}$	1970.1	1.75191
$n_{1529.6}$	1529.6	1.76014
$n_{1060.0}$	1060.0	1.76892
$n_t$	1014.0	1.76995
$n_s$	852.1	1.77434
$n_r$	706.5	1.78019
$n_C$	656.3	1.78301
$n_{C'}$	643.8	1.78380
$n_{632.8}$	632.8	1.78454
$n_D$	589.3	1.78785
$n_d$	587.6	1.78800
$n_e$	546.1	1.79195
$n_F$	486.1	1.79960
$n_{F'}$	480.0	1.80056
$n_g$	435.8	1.80882
$n_h$	404.7	1.81657
$n_i$	365.0	1.83002
$n_{334.1}$	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	0.430	0.121
2325	0.713	0.429
1970	0.942	0.862
1530	0.988	0.971
1060	0.998	0.996
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.997	0.992
546	0.997	0.993
500	0.996	0.989
460	0.990	0.976
436	0.985	0.964
420	0.981	0.952
405	0.971	0.928
400	0.966	0.916
390	0.949	0.878
380	0.921	0.814
370	0.870	0.707
365	0.833	0.634
350	0.644	0.333
334	0.276	0.040
320	0.030	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2646
$P_{C,s}$	0.5222
$P_{d,C}$	0.3009
$P_{e,d}$	0.2380
$P_{g,F}$	0.5555
$P_{i,h}$	0.8106
$P'_{s,t}$	0.2619
$P'_{C,s}$	0.5641
$P'_{d,C'}$	0.2507
$P'_{e,d}$	0.2356
$P'_{g,F'}$	0.4927
$P'_{i,h}$	0.8025

Constants of Dispersion Formula	
$B_1$	1.87134529
$B_2$	0.25078301
$B_3$	1.22048639
$C_1$	0.0093332228
$C_2$	0.0345637762
$C_3$	83.2404866

Constants of Dispersion $dn/dT$	
$D_0$	$3.11 \cdot 10^{-6}$
$D_1$	$1.13 \cdot 10^{-8}$
$D_2$	$-2.07 \cdot 10^{-11}$
$E_0$	$5.88 \cdot 10^{-7}$
$E_1$	$6.32 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.199

Color Code	
$\lambda_{80}/\lambda_5$	39/32
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	0.0165
$\Delta P_{C,s}$	0.0086
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	-0.0481

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.1
$T_g [^\circ C]$	653
$T_{10}^{13.0} [^\circ C]$	659
$T_{10}^{7.6} [^\circ C]$	729
$c_p [J/(g \cdot K)]$	0.550
$\lambda [W/(m \cdot K)]$	0.830
$\rho [g/cm^3]$	4.28
$E [10^3 N/mm^2]$	124
$\mu$	0.295
$K [10^{-6} mm^2/N]$	1.46
$HK_{0.1/20}$	730
$HG$	2
$CR$	1
$FR$	1
$SR$	51.3
$AR$	1
$PR$	1.3

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	3.8	4.8	5.8	1.4	2.4	3.3
+20/ +40	3.9	5.1	6.2	2.3	3.5	4.6
+60/ +80	4.0	5.3	6.5	2.8	4.1	5.3