

## N-LAF33 786441.436

$n_d = 1.78582$	$v_d = 44.05$	$n_F - n_C = 0.017839$
$n_e = 1.79007$	$v_e = 43.80$	$n_{F'} - n_{C'} = 0.018038$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.74262
$n_{1970.1}$	1970.1	1.74968
$n_{1529.6}$	1529.6	1.75732
$n_{1060.0}$	1060.0	1.76584
$n_t$	1014.0	1.76689
$n_s$	852.1	1.77138
$n_r$	706.5	1.77751
$n_C$	656.3	1.78049
$n_{C'}$	643.8	1.78134
$n_{632.8}$	632.8	1.78213
$n_D$	589.3	1.78567
$n_d$	587.6	1.78582
$n_e$	546.1	1.79007
$n_F$	486.1	1.79833
$n_{F'}$	480.0	1.79937
$n_g$	435.8	1.80837
$n_h$	404.7	1.81687
$n_i$	365.0	1.83175
$n_{334.1}$	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	0.473	0.154
2325	0.744	0.478
1970	0.945	0.868
1530	0.990	0.974
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.995
620	0.998	0.994
580	0.998	0.994
546	0.998	0.994
500	0.995	0.988
460	0.989	0.973
436	0.983	0.959
420	0.978	0.946
405	0.968	0.922
400	0.963	0.910
390	0.948	0.874
380	0.921	0.813
370	0.874	0.714
365	0.841	0.648
350	0.692	0.399
334	0.382	0.090
320	0.076	0.002
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2520
$P_{C,s}$	0.5107
$P_{d,C}$	0.2988
$P_{e,d}$	0.2378
$P_{g,F}$	0.5626
$P_{i,h}$	0.8339
$P'_{s,t}$	0.2492
$P'_{C',s}$	0.5518
$P'_{d,C'}$	0.2488
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4987
$P'_{i,h}$	0.8247

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

$\Delta P_{C,t}$	0.0088
$\Delta P_{C,s}$	0.0052
$\Delta P_{F,e}$	-0.0018
$\Delta P_{g,F}$	-0.0071
$\Delta P_{i,g}$	-0.0443

Constants of Dispersion Formula	
$B_1$	1.79653417
$B_2$	0.311577903
$B_3$	1.15981863
$C_1$	0.00927313493
$C_2$	0.0358201181
$C_3$	87.3448712

Constants of Dispersion $dn/dT$	
$D_0$	$8.17 \cdot 10^{-6}$
$D_1$	$1.24 \cdot 10^{-8}$
$D_2$	$-1.65 \cdot 10^{-11}$
$E_0$	$7.11 \cdot 10^{-7}$
$E_1$	$8.59 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.21

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

Remarks	
suitable for precision molding	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.6
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.7
$T_g [^\circ C]$	600
$T_{10}^{13.0} [^\circ C]$	585
$T_{10}^{7.6} [^\circ C]$	673
$c_p [J/(g \cdot K)]$	0.570
$\lambda [W/(m \cdot K)]$	0.800
$AT [^\circ C]$	628
$\rho [g/cm^3]$	4.36
$E [10^3 N/mm^2]$	111
$\mu$	0.301
$K [10^{-6} mm^2/N]$	2.21
$HK_{0.1/20}$	730
$HG$	1
$Abrasion Aa$	67
$CR$	1
$FR$	2
$SR$	52.2
$AR$	1
$PR$	3
$SR-J$	6
$WR-J$	1

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	6.8	8.1	9.4	4.4	5.7	7.0
+20/ +40	7.0	8.5	10.0	5.5	6.9	8.4
+60/ +80	7.2	8.9	10.5	6.0	7.6	9.3