

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		
	λ [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 τ_i		
λ [nm]	τ_i (10mm)	τ_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 ΔP 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	
λ_{80}/λ_5	39/32
(*= λ_{70}/λ_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
μ	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