

N-LAF33 786441.436

$n_d = 1.78582$
 $n_e = 1.79007$

$v_d = 44.05$
 $v_e = 43.80$

$n_F - n_C = 0.017839$
 $n_{F'} - n_{C'} = 0.018038$

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	

Constants of Dispersion Formula

B_1	1.796534170
B_2	0.311577903
B_3	1.159818630
C_1	0.009273135
C_2	0.0358201181
C_3	87.34487120

Constants of Formula for dn/dT

D_0	8.17E-06
D_1	1.24E-08
D_2	-1.65E-11
E_0	7.11E-07
E_1	8.59E-10
λ_{TK} [μm]	0.210

Temperature Coefficients of the Refractive Index

[°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

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.470	0.150
2325	0.740	0.480
1970	0.950	0.870
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	0.950
405	0.968	0.920
400	0.963	0.910
390	0.950	0.870
380	0.920	0.810
370	0.870	0.710
365	0.840	0.650
350	0.690	0.400
334	0.380	0.090
320	0.080	0.000
310	0.000	0.000
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 39/32

Remarks

suitable for precision molding

Relative Partial Dispersion P

$P_{s,t}$	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

Relative Partial Dispersion P'

$P'_{s,t}$	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 Rel. Partial Disp.

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

Chemical Properties

CR	1
FR	2
SR	52.2
AR	1
PR	3
SR-J	6
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	6.7
T_g [°C]	600
T_{10}^{13} [°C]	585
$T_{10}^{7.6}$ [°C]	673
c_p [J/(g·K)]	0.570
λ [W/(m·K)]	0.800
AT [°C]	628
ρ [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