

N-LAF34 773496.424

$n_d = 1.77250$

$v_d = 49.62$

$n_F - n_C = 0.015568$

$n_e = 1.77621$

$v_e = 49.38$

$n_F - n_C = 0.015719$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.73085
$n_{1970.1}$	1970.1	1.73824
$n_{1529.6}$	1529.6	1.74610
$n_{1060.0}$	1060.0	1.75447
n_t	1014.0	1.75546
n_s	852.1	1.75962
n_r	706.5	1.76515
n_C	656.3	1.76780
$n_{C'}$	643.8	1.76855
$n_{632.8}$	632.8	1.76924
n_D	589.3	1.77236
n_d	587.6	1.77250
n_e	546.1	1.77621
n_F	486.1	1.78337
$n_{F'}$	480.0	1.78427
n_g	435.8	1.79196
n_h	404.7	1.79915
n_i	365.0	
$n_{334.1}$	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	1.758369580
B_2	0.313537785
B_3	1.189252310
C_1	0.008728100
C_2	0.0293020832
C_3	85.17806440

Constants of Formula for dn/dT

D_0	3.89E-06
D_1	1.02E-08
D_2	-1.91E-11
E_0	5.88E-07
E_1	7.57E-10
λ_{TK} [μm]	0.181

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	4.2	5.2	6.2	1.9	2.8	3.7
+20/+40	4.3	5.4	6.5	2.7	3.9	4.9
+60/+80	4.4	5.6	6.8	3.2	4.4	5.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.450	0.140
2325	0.730	0.450
1970	0.950	0.870
1530	0.989	0.973
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.996
620	0.998	0.995
580	0.998	0.995
546	0.998	0.996
500	0.997	0.993
460	0.994	0.986
436	0.991	0.978
420	0.988	0.971
405	0.983	0.958
400	0.980	0.950
390	0.971	0.930
380	0.955	0.890
370	0.930	0.830
365	0.910	0.790
350	0.820	0.600
334	0.640	0.330
320	0.420	0.120
310	0.240	0.030
300	0.070	0.000
290	0.000	
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 38/30

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2674
$P_{C,s}$	0.5256
$P_{d,C}$	0.3018
$P_{e,d}$	0.2382
$P_{g,F}$	0.5518
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2648
$P'_{C,s}$	0.5679
$P'_{d,C'}$	0.2515
$P'_{e,d}$	0.2359
$P'_{g,F'}$	0.4895
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0126
$\Delta P_{C,s}$	0.0070
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	1
SR	51.3
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.0
T_g [°C]	668
T_{10}^{13} [°C]	659
$T_{10}^{7.6}$ [°C]	745
c_p [J/(g·K)]	0.560
λ [W/(m·K)]	0.800
ρ [g/cm ³]	4.24
E [10^3 N/mm ²]	123
μ	0.292
K [10^{-6} mm ² /N]	1.44
$HK_{0.1/20}$	770
HG	2