

## N-LAF7 749348.373

$n_d = 1.74950$

$v_d = 34.82$

$n_F - n_C = 0.021525$

$n_e = 1.75459$

$v_e = 34.56$

$n_F - n_C = 0.021833$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.70344
$n_{1970.1}$	1970.1	1.71021
$n_{1529.6}$	1529.6	1.71772
$n_{1060.0}$	1060.0	1.72659
$n_t$	1014.0	1.72773
$n_s$	852.1	1.73272
$n_r$	706.5	1.73972
$n_C$	656.3	1.74320
$n_{C'}$	643.8	1.74419
$n_{632.8}$	632.8	1.74511
$n_D$	589.3	1.74931
$n_d$	587.6	1.74950
$n_e$	546.1	1.75459
$n_F$	486.1	1.76472
$n_{F'}$	480.0	1.76602
$n_g$	435.8	1.77741
$n_h$	404.7	1.78854
$n_i$	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

$B_1$	1.740287640
$B_2$	0.226710554
$B_3$	1.325255480
$C_1$	0.010792558
$C_2$	0.0538626639
$C_3$	106.26866500

### Constants of Formula for $dn/dT$

$D_0$	9.21E-07
$D_1$	1.10E-08
$D_2$	-1.75E-11
$E_0$	7.67E-07
$E_1$	1.10E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.264

### 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	2.5	3.9	5.6	0.2	1.5	3.1
+20/+40	2.6	4.3	6.3	1.1	2.7	4.7
+60/+80	2.7	4.6	6.8	1.6	3.4	5.6

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.670	0.370
2325	0.860	0.680
1970	0.969	0.920
1530	0.995	0.987
1060	0.998	0.996
700	0.997	0.993
660	0.997	0.992
620	0.997	0.992
580	0.996	0.990
546	0.994	0.985
500	0.988	0.971
460	0.977	0.940
436	0.965	0.910
420	0.950	0.870
405	0.920	0.810
400	0.910	0.780
390	0.860	0.680
380	0.770	0.520
370	0.570	0.250
365	0.380	0.090
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  41/36

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2317
$P_{C,s}$	0.4870
$P_{d,C}$	0.2928
$P_{e,d}$	0.2366
$P_{g,F}$	0.5894
$P_{i,h}$	

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2284
$P'_{C,s}$	0.5254
$P'_{d,C'}$	0.2434
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5218
$P'_{i,h}$	

### Deviation of Rel. Partial Disp.

#### $\Delta P$ from the normal line

$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0029
$\Delta P_{F,e}$	0.0005
$\Delta P_{g,F}$	0.0042
$\Delta P_{i,g}$	

### Chemical Properties

CR	1
FR	2
SR	51.3
AR	1.2
PR	1.2

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.3
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.4
$T_g$ [°C]	568
$T_{10}^{13}$ [°C]	563
$T_{10}^{7.6}$ [°C]	669
$c_p$ [J/(g·K)]	0.620
$\lambda$ [W/(m·K)]	0.830
$\rho$ [g/cm <sup>3</sup> ]	3.73
$E$ [ $10^3$ N/mm <sup>2</sup> ]	96
$\mu$	0.271
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.57
$HK_{0.1/20}$	530
HG	5