

## N-LAF35 743494.412

$n_d = 1.74330$	$v_d = 49.40$	$n_F - n_C = 0.015047$
$n_e = 1.74688$	$v_e = 49.16$	$n_{F'} - n_{C'} = 0.015194$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	
$n_{1970.1}$	1970.1	
$n_{1529.6}$	1529.6	
$n_{1060.0}$	1060.0	1.72588
$n_t$	1014.0	1.72683
$n_s$	852.1	1.73086
$n_r$	706.5	1.73620
$n_C$	656.3	1.73876
$n_{C'}$	643.8	1.73948
$n_{632.8}$	632.8	1.74015
$n_D$	589.3	1.74317
$n_d$	587.6	1.74330
$n_e$	546.1	1.74688
$n_F$	486.1	1.75381
$n_{F'}$	480.0	1.75467
$n_g$	435.8	1.76212
$n_h$	404.7	1.76908
$n_i$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.398	0.100
2325	0.713	0.430
1970	0.937	0.850
1530	0.988	0.970
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.996
620	0.998	0.994
580	0.998	0.994
546	0.998	0.995
500	0.997	0.992
460	0.994	0.985
436	0.990	0.976
420	0.987	0.967
405	0.980	0.950
400	0.976	0.940
390	0.966	0.920
380	0.948	0.880
370	0.918	0.810
365	0.898	0.760
350	0.788	0.550
334	0.592	0.270
320	0.348	0.200
310	0.152	0.080
300	0.026	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2674
$P_{C,s}$	0.5253
$P_{d,C}$	0.3017
$P_{e,d}$	0.2381
$P_{g,F}$	0.5523
$P_{i,h}$	
$P'_{s,t}$	0.2648
$P'_{C',s}$	0.5676
$P'_{d,C'}$	0.2514
$P'_{e,d}$	0.2358
$P'_{g,F'}$	0.4899
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0134
$\Delta P_{C,s}$	0.0072
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.51697436
$B_2$	0.455875464
$B_3$	1.07469242
$C_1$	0.00750943203
$C_2$	0.0260046715
$C_3$	80.5945159

Constants of Dispersion $dn/dT$	
$D_0$	$8.98 \cdot 10^{-6}$
$D_1$	$1.26 \cdot 10^{-8}$
$D_2$	$-1.23 \cdot 10^{-11}$
$E_0$	$6.24 \cdot 10^{-7}$
$E_1$	$6.86 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.194

Color Code	
$\lambda_{80}/\lambda_5$	38/30
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.3
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.4
$T_g [^\circ C]$	589
$T_{10}^{13.0} [^\circ C]$	585
$T_{10}^{7.6} [^\circ C]$	669
$c_p [J/(g \cdot K)]$	0.570
$\lambda [W/(m \cdot K)]$	0.800
$\rho [g/cm^3]$	4.12
$E [10^3 N/mm^2]$	109
$\mu$	0.301
$K [10^{-6} mm^2/N]$	2.29
$HK_{0.1/20}$	660
$HG$	2
$CR$	2
$FR$	1
$SR$	52.3
$AR$	1
$PR$	3.3

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	7.0	8.1	9.2	4.7	5.7	6.7
+20/ +40	7.1	8.4	9.6	5.6	6.9	8.0
+60/ +80	7.3	8.7	10.0	6.2	7.5	8.8