

## N-LASF31A 883408.551

$n_d = 1.88300$	$v_d = 40.76$	$n_F - n_C = 0.021663$
$n_e = 1.88815$	$v_e = 40.52$	$n_{F'} - n_{C'} = 0.021921$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.83590
$n_{1970.1}$	1970.1	1.84267
$n_{1529.6}$	1529.6	1.85026
$n_{1060.0}$	1060.0	1.85937
$n_t$	1014.0	1.86054
$n_s$	852.1	1.86572
$n_r$	706.5	1.87298
$n_C$	656.3	1.87656
$n_{C'}$	643.8	1.87757
$n_{632.8}$	632.8	1.87853
$n_D$	589.3	1.88281
$n_d$	587.6	1.88300
$n_e$	546.1	1.88815
$n_F$	486.1	1.89822
$n_{F'}$	480.0	1.89950
$n_g$	435.8	1.91050
$n_h$	404.7	1.92093
$n_i$	365.0	1.93920
$n_{334.1}$	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	0.636	0.323
2325	0.824	0.616
1970	0.963	0.910
1530	0.993	0.983
1060	0.998	0.995
700	0.997	0.992
660	0.996	0.991
620	0.996	0.990
580	0.996	0.990
546	0.996	0.990
500	0.991	0.978
460	0.980	0.950
436	0.970	0.927
420	0.960	0.903
405	0.942	0.862
400	0.933	0.841
390	0.905	0.780
380	0.860	0.685
370	0.782	0.540
365	0.729	0.453
350	0.488	0.166
334	0.129	0.006
320	0.060	
310	0.001	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2391
$P_{C,s}$	0.5004
$P_{d,C}$	0.2972
$P_{e,d}$	0.2377
$P_{g,F}$	0.5667
$P_{i,h}$	0.8436
$P'_{s,t}$	0.2363
$P'_{C',s}$	0.5407
$P'_{d,C'}$	0.2475
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5021
$P'_{i,h}$	0.8337

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

$\Delta P_{C,t}$	0.0012
$\Delta P_{C,s}$	0.0025
$\Delta P_{F,e}$	-0.0019
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	-0.0575

Constants of Dispersion Formula	
$B_1$	1.96485075
$B_2$	0.475231259
$B_3$	1.48360109
$C_1$	0.00982060155
$C_2$	0.0344713438
$C_3$	110.739863

Constants of Dispersion $dn/dT$	
$D_0$	$1.67 \cdot 10^{-6}$
$D_1$	$8.90 \cdot 10^{-9}$
$D_2$	$-8.73 \cdot 10^{-12}$
$E_0$	$7.47 \cdot 10^{-7}$
$E_1$	$7.46 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.207

Color Code	
$\lambda_{80}/\lambda_5$	38/33*
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.7
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.7
$T_g [^\circ C]$	719
$T_{10}^{13.0} [^\circ C]$	720
$T_{10}^{7.6} [^\circ C]$	830
$c_p [J/(g \cdot K)]$	0.440
$\lambda [W/(m \cdot K)]$	0.790
$\rho [g/cm^3]$	5.51
$E [10^3 N/mm^2]$	126
$\mu$	0.301
$K [10^{-6} mm^2/N]$	1.18
$HK_{0.1/20}$	650
<b>HG</b>	2
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	2.3
<b>AR</b>	1
<b>PR</b>	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	3.4	4.8	6.3	0.9	2.3	3.7
+20/ +40	3.3	4.9	6.6	1.7	3.3	4.9
+60/ +80	3.4	5.2	6.9	2.2	3.9	5.6