

## 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	

### Constants of Dispersion Formula

$B_1$	1.964850750
$B_2$	0.475231259
$B_3$	1.483601090
$C_1$	0.009820602
$C_2$	0.0344713438
$C_3$	110.73986300

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

$D_0$	1.67E-06
$D_1$	8.90E-09
$D_2$	-8.73E-12
$E_0$	7.47E-07
$E_1$	7.46E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.207

### 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	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

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.640	0.320
2325	0.820	0.620
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	0.930
420	0.960	0.900
405	0.940	0.860
400	0.930	0.840
390	0.910	0.780
380	0.860	0.690
370	0.780	0.540
365	0.730	0.450
350	0.490	0.170
334	0.130	0.010
320	0.060	0.000
310	0.000	
300	0.000	
290		
280		
270		
260		
250		

### Color Code

$\lambda_{70} / \lambda_{50}$  38/33

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	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

### Relative Partial Dispersion P'

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

$\Delta P$ 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

### Chemical Properties

CR	1
FR	0
SR	2.3
AR	1
PR	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.7
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.7
$T_g$ [°C]	719
$T_{10}^{13}$ [°C]	720
$T_{10}^{7.6}$ [°C]	830
$c_p$ [J/(g·K)]	0.440
$\lambda$ [W/(m·K)]	0.790
$\rho$ [g/cm <sup>3</sup> ]	5.51
$E$ [ $10^3$ N/mm <sup>2</sup> ]	126
$\mu$	0.301
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	1.18
$HK_{0.1/20}$	650
HG	2