

## N-LASF46B 904313.451

$n_d = 1.90366$   
 $n_e = 1.91048$

$v_d = 31.32$   
 $v_e = 31.09$

$n_F - n_C = 0.028852$   
 $n_{F'} - n_{C'} = 0.029289$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.84657
$n_{1970.1}$	1970.1	1.85418
$n_{1529.6}$	1529.6	1.86283
$n_{1060.0}$	1060.0	1.87362
$n_t$	1014.0	1.87505
$n_s$	852.1	1.88146
$n_r$	706.5	1.89065
$n_C$	656.3	1.89526
$n_{C'}$	643.8	1.89657
$n_{632.8}$	632.8	1.89781
$n_D$	589.3	1.90341
$n_d$	587.6	1.90366
$n_e$	546.1	1.91048
$n_F$	486.1	1.92411
$n_{F'}$	480.0	1.92586
$n_g$	435.8	1.94130
$n_h$	404.7	1.95647
$n_i$	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

$B_1$	2.179889220
$B_2$	0.306495184
$B_3$	1.568824370
$C_1$	0.012580538
$C_2$	0.0567191367
$C_3$	105.31653800

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

$D_0$	5.98E-06
$D_1$	1.30E-08
$D_2$	-3.50E-12
$E_0$	9.13E-07
$E_1$	1.24E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.267

### 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	6.1	8.2	10.7	3.6	5.6	8.1
+20/+40	6.4	8.9	11.8	4.8	7.2	10.1
+60/+80	6.8	9.5	12.7	5.5	8.2	11.4

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.560	0.230
2325	0.790	0.550
1970	0.954	0.890
1530	0.991	0.977
1060	0.998	0.996
700	0.996	0.989
660	0.993	0.983
620	0.992	0.980
580	0.991	0.978
546	0.989	0.972
500	0.977	0.940
460	0.954	0.890
436	0.930	0.840
420	0.900	0.770
405	0.850	0.660
400	0.820	0.600
390	0.710	0.420
380	0.500	0.180
370	0.180	0.010
365	0.050	0.000
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{70} / \lambda_{50}$  41/37

### Remarks

suitable for precision molding

### Relative Partial Dispersion P

$P_{s,t}$	0.2222
$P_{C,s}$	0.4783
$P_{d,C}$	0.2911
$P_{e,d}$	0.2364
$P_{g,F}$	0.5956
$P_{i,h}$	

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2189
$P'_{C,s}$	0.5160
$P'_{d,C'}$	0.2419
$P'_{e,d}$	0.2329
$P'_{g,F'}$	0.5270
$P'_{i,h}$	

### Deviation of Rel. Partial Disp.

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

$\Delta P_{C,t}$	0.0069
$\Delta P_{C,s}$	0.0024
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0045
$\Delta P_{i,g}$	

### Chemical Properties

CR	1
FR	0
SR	3.3
AR	1
PR	1
SR-J	2
WR-J	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.0
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.1
$T_g$ [°C]	611
$T_{10}^{13}$ [°C]	613
$T_{10}^{7.6}$ [°C]	703
$c_p$ [J/(g·K)]	0.550
$\lambda$ [W/(m·K)]	0.880
AT [°C]	649
$\rho$ [g/cm <sup>3</sup> ]	4.51
E [10 <sup>3</sup> N/mm <sup>2</sup> ]	121
$\mu$	0.303
K [10 <sup>-6</sup> mm <sup>2</sup> /N]	1.87
HK <sub>0.1/20</sub>	712
Abrasion Aa	55