

## N-LASF44 804465.444

$n_d = 1.80420$

$v_d = 46.50$

$n_F - n_C = 0.017294$

$n_e = 1.80832$

$v_e = 46.25$

$n_F - n_C = 0.017476$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.76070
$n_{1970.1}$	1970.1	1.76801
$n_{1529.6}$	1529.6	1.77590
$n_{1060.0}$	1060.0	1.78455
$n_t$	1014.0	1.78560
$n_s$	852.1	1.79006
$n_r$	706.5	1.79609
$n_C$	656.3	1.79901
$n_{C'}$	643.8	1.79983
$n_{632.8}$	632.8	1.80060
$n_D$	589.3	1.80405
$n_d$	587.6	1.80420
$n_e$	546.1	1.80832
$n_F$	486.1	1.81630
$n_{F'}$	480.0	1.81731
$n_g$	435.8	1.82594
$n_h$	404.7	1.83405
$n_i$	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

$B_1$	1.788971050
$B_2$	0.386758670
$B_3$	1.305062430
$C_1$	0.008725063
$C_2$	0.0308085023
$C_3$	92.77438240

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

$D_0$	3.32E-06
$D_1$	1.12E-08
$D_2$	-8.52E-12
$E_0$	5.88E-07
$E_1$	7.13E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.209

### 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	4.0	5.1	6.1	1.6	2.6	3.6
+20/+40	4.0	5.3	6.5	2.5	3.7	4.9
+60/+80	4.2	5.6	6.9	3.0	4.4	5.7

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.470	0.150
2325	0.740	0.470
1970	0.950	0.870
1530	0.990	0.975
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.996	0.989
460	0.991	0.977
436	0.986	0.965
420	0.980	0.950
405	0.967	0.920
400	0.963	0.910
390	0.950	0.870
380	0.910	0.790
370	0.860	0.690
365	0.820	0.620
350	0.660	0.350
334	0.380	0.090
320	0.150	
310	0.070	
300	0.030	
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_{5}$  40/31

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2582
$P_{C,s}$	0.5171
$P_{d,C}$	0.3002
$P_{e,d}$	0.2380
$P_{g,F}$	0.5572
$P_{i,h}$	

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2555
$P'_{C,s}$	0.5588
$P'_{d,C'}$	0.2501
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4941
$P'_{i,h}$	

### Deviation of Rel. Partial Disp.

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

$\Delta P_{C,t}$	0.0098
$\Delta P_{C,s}$	0.0058
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	

### Chemical Properties

CR	1
FR	1
SR	4
AR	1
PR	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.2
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.4
$T_g$ [°C]	655
$T_{10}^{13}$ [°C]	659
$T_{10}^{7.6}$ [°C]	742
$c_p$ [J/(g·K)]	0.530
$\lambda$ [W/(m·K)]	0.820
$\rho$ [g/cm <sup>3</sup> ]	4.44
$E$ [ $10^3$ N/mm <sup>2</sup> ]	124
$\mu$	0.293
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	1.41
$HK_{0.1/20}$	770
HG	2