

## N-LASF45HT 801350.363

$n_d = 1.80107$   
 $n_e = 1.80650$

$v_d = 34.97$   
 $v_e = 34.72$

$n_F - n_C = 0.022905$   
 $n_{F'} - n_{C'} = 0.023227$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.75487
$n_{1970.1}$	1970.1	1.76104
$n_{1529.6}$	1529.6	1.76809
$n_{1060.0}$	1060.0	1.77689
$n_t$	1014.0	1.77805
$n_s$	852.1	1.78325
$n_r$	706.5	1.79066
$n_C$	656.3	1.79436
$n_{C'}$	643.8	1.79541
$n_{632.8}$	632.8	1.79640
$n_D$	589.3	1.80087
$n_d$	587.6	1.80107
$n_e$	546.1	1.80650
$n_F$	486.1	1.81726
$n_{F'}$	480.0	1.81864
$n_g$	435.8	1.83068
$n_h$	404.7	1.84237
$n_i$	365.0	365.0
$n_{334.1}$	334.1	334.1
$n_{312.6}$	312.6	312.6
$n_{296.7}$	296.7	296.7
$n_{280.4}$	280.4	280.4
$n_{248.3}$	248.3	248.3

### Constants of Dispersion Formula

$B_1$	1.871401980
$B_2$	0.267777879
$B_3$	1.730300080
$C_1$	0.011217192
$C_2$	0.0505134972
$C_3$	147.10650500

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

$D_0$	2.78E-06
$D_1$	8.73E-09
$D_2$	-2.65E-11
$E_0$	8.24E-07
$E_1$	1.15E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.255

### 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	3.8	5.4	7.3	1.4	3.0	4.7
+20/+40	3.8	5.7	7.9	2.3	4.1	6.2
+60/+80	3.8	5.9	8.3	2.6	4.7	7.0

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.810	0.580
2325	0.880	0.720
1970	0.972	0.930
1530	0.995	0.988
1060	0.999	0.997
700	0.996	0.990
660	0.995	0.987
620	0.994	0.986
580	0.994	0.986
546	0.993	0.983
500	0.985	0.964
460	0.972	0.930
436	0.958	0.900
420	0.940	0.860
405	0.910	0.780
400	0.890	0.740
390	0.830	0.620
380	0.720	0.440
370	0.530	0.200
365	0.400	0.100
350	0.030	0.000
334	0.000	0.000
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_{5}$  43/35

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2268
$P_{C,s}$	0.4849
$P_{d,C}$	0.2930
$P_{e,d}$	0.2368
$P_{g,F}$	0.5859
$P_{i,h}$	

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2237
$P'_{C,s}$	0.5235
$P'_{d,C'}$	0.2437
$P'_{e,d}$	0.2336
$P'_{g,F'}$	0.5186
$P'_{i,h}$	

### Deviation of Rel. Partial Disp.

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

$\Delta P_{C,t}$	0.0009
$\Delta P_{C,s}$	0.0005
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0009
$\Delta P_{i,g}$	

### Chemical Properties

CR	1
FR	0
SR	3.2
AR	1
PR	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.6
$T_g$ [°C]	647
$T_{10}^{13}$ [°C]	652
$T_{10}^{7.6}$ [°C]	773
$c_p$ [J/(g·K)]	0.660
$\lambda$ [W/(m·K)]	1.020
$\rho$ [g/cm <sup>3</sup> ]	3.63
$E$ [ $10^3$ N/mm <sup>2</sup> ]	116
$\mu$	0.281
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.01
$HK_{0.1/20}$	630
HG	3