

N-LASF45HT  
801350.363

$n_d = 1.80107$	$v_d = 34.97$	$n_F - n_C = 0.022905$
$n_e = 1.80650$	$v_e = 34.72$	$n_{F'} - n_{C'} = 0.023227$

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	
$n_{334.1}$	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	
$B_1$	1.87140198
$B_2$	0.267777879
$B_3$	1.73030008
$C_1$	0.011217192
$C_2$	0.0505134972
$C_3$	147.106505

Constants of Dispersion dn/dT	
$D_0$	$2.78 \cdot 10^{-6}$
$D_1$	$8.73 \cdot 10^{-9}$
$D_2$	$-2.65 \cdot 10^{-11}$
$E_0$	$8.24 \cdot 10^{-7}$
$E_1$	$1.15 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.255

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel} / \Delta T [10^{-6} / K]$			$\Delta n_{abs} / \Delta T [10^{-6} / K]$		
[°C]	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	0.805	0.581
2325	0.879	0.724
1970	0.972	0.932
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	0.931
436	0.958	0.898
420	0.941	0.858
405	0.906	0.781
400	0.886	0.739
390	0.825	0.619
380	0.719	0.439
370	0.528	0.203
365	0.395	0.098
350	0.033	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	43/35
(* = $\lambda_{70} / \lambda_5$ )	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2268
$P_{C,s}$	0.4849
$P_{d,C}$	0.2930
$P_{e,d}$	0.2368
$P_{g,F}$	0.5859
$P_{i,h}$	
$P'_{s,t}$	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 Relative Partial Dispersions $\Delta P$ 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
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6} / K]$	7.4
$\alpha_{+20/+300^\circ C} [10^{-6} / K]$	8.6
$T_g [^\circ C]$	647
$T_{10}^{13.0} [^\circ C]$	652
$T_{10}^{7.6} [^\circ C]$	773
$c_p [J/(g \cdot K)]$	0.660
$\lambda [W/(m \cdot K)]$	1.020
$\rho [g/cm^3]$	3.63
$E [10^3 N/mm^2]$	116
$\mu$	0.281
$K [10^{-6} mm^2/N]$	2.01
$HK_{0.1/20}$	630
HG	3
CR	1
FR	0
SR	3.2
AR	1
PR	1