

## N-LASF45 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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
<b>2500</b>	0.805	0.581
<b>2325</b>	0.879	0.724
<b>1970</b>	0.972	0.932
<b>1530</b>	0.995	0.988
<b>1060</b>	0.999	0.997
<b>700</b>	0.996	0.990
<b>660</b>	0.995	0.987
<b>620</b>	0.994	0.984
<b>580</b>	0.994	0.986
<b>546</b>	0.993	0.982
<b>500</b>	0.983	0.958
<b>460</b>	0.965	0.915
<b>436</b>	0.946	0.870
<b>420</b>	0.924	0.820
<b>405</b>	0.877	0.720
<b>400</b>	0.857	0.680
<b>390</b>	0.787	0.550
<b>380</b>	0.672	0.370
<b>370</b>	0.476	0.150
<b>365</b>	0.336	0.060
<b>350</b>	0.012	
<b>334</b>		
<b>320</b>		
<b>310</b>		
<b>300</b>		
<b>290</b>		
<b>280</b>		
<b>270</b>		
<b>260</b>		
<b>250</b>		

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
$\Delta P_{i,g}$	

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

Color Code	
$\lambda_{80}/\lambda_5$	44/35
(* = $\lambda_{70}/\lambda_5$ )	

Remarks

Temperature Coefficients of Refractive Index						
[°C]	$\Delta n_{\text{rel}}/\Delta T [10^{-6}/K]$			$\Delta n_{\text{abs}}/\Delta T [10^{-6}/K]$		
	1060.0	e	g	1060.0	e	g
<b>-40/ -20</b>	3.8	5.4	7.3	1.4	3.0	4.7
<b>+20/ +40</b>	3.8	5.7	7.9	2.3	4.1	6.2
<b>+60/ +80</b>	3.8	5.9	8.3	2.6	4.7	7.0

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