

## N-LASF46B 904313.451

$n_d = 1.90366$	$v_d = 31.32$	$n_F - n_C = 0.028852$
$n_e = 1.91048$	$v_e = 31.09$	$n_{F'} - n_{C'} = 0.029289$

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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.556	0.230
2325	0.787	0.550
1970	0.954	0.890
1530	0.991	0.977
1060	0.998	0.996
700	0.997	0.992
660	0.996	0.990
620	0.995	0.987
580	0.993	0.982
546	0.990	0.974
500	0.981	0.952
460	0.963	0.910
436	0.946	0.870
420	0.924	0.820
405	0.872	0.710
400	0.847	0.660
390	0.752	0.490
380	0.556	0.230
370	0.275	0.021
365	0.114	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2222
$P_{C,s}$	0.4783
$P_{d,C}$	0.2911
$P_{e,d}$	0.2364
$P_{g,F}$	0.5956
$P_{i,h}$	
$P'_{s,t}$	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 Relative Partial Dispersions $\Delta P$ 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
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	2.17988922
$B_2$	0.306495184
$B_3$	1.56882437
$C_1$	0.0125805384
$C_2$	0.0567191367
$C_3$	105.316538

Constants of Dispersion $dn/dT$	
$D_0$	$5.98 \cdot 10^{-6}$
$D_1$	$1.30 \cdot 10^{-8}$
$D_2$	$-3.50 \cdot 10^{-12}$
$E_0$	$9.13 \cdot 10^{-7}$
$E_1$	$1.24 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.267

Color Code	
$\lambda_{80}/\lambda_5$	40/36*
(*= $\lambda_{70}/\lambda_5$ )	

Remarks
suitable for precision molding

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.1
$T_g [^\circ C]$	611
$T_{10}^{13.0} [^\circ C]$	613
$T_{10}^{7.6} [^\circ C]$	703
$c_p [J/(g \cdot K)]$	0.550
$\lambda [W/(m \cdot K)]$	0.880
$AT [^\circ C]$	649
$\rho [g/cm^3]$	4.51
$E [10^3 N/mm^2]$	121
$\mu$	0.303
$K [10^{-6} mm^2/N]$	1.87
$HK_{0.1/20}$	712
<b>HG</b>	
<b>Abrasion Aa</b>	55
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	3.3
<b>AR</b>	1
<b>PR</b>	1
<b>SR-J</b>	2
<b>WR-J</b>	1

Temperature Coefficients of Refractive Index						
[ $^\circ C$ ]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	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