

## N-LASF41 835431.485

$n_d = 1.83501$	$v_d = 43.13$	$n_F - n_C = 0.019361$
$n_e = 1.83961$	$v_e = 42.88$	$n_{F'} - n_{C'} = 0.019578$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.78859
$n_{1970.1}$	1970.1	1.79608
$n_{1529.6}$	1529.6	1.80423
$n_{1060.0}$	1060.0	1.81338
$n_t$	1014.0	1.81450
$n_s$	852.1	1.81936
$n_r$	706.5	1.82599
$n_C$	656.3	1.82923
$n_{C'}$	643.8	1.83014
$n_{632.8}$	632.8	1.83100
$n_D$	589.3	1.83484
$n_d$	587.6	1.83501
$n_e$	546.1	1.83961
$n_F$	486.1	1.84859
$n_{F'}$	480.0	1.84972
$n_g$	435.8	1.85949
$n_h$	404.7	1.86872
$n_i$	365.0	1.88486
$n_{334.1}$	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	0.480	0.160
2325	0.764	0.510
1970	0.950	0.880
1530	0.993	0.983
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.997	0.993
500	0.994	0.984
460	0.985	0.962
436	0.976	0.940
420	0.967	0.920
405	0.954	0.890
400	0.948	0.876
390	0.928	0.830
380	0.891	0.750
370	0.831	0.630
365	0.787	0.550
350	0.592	0.270
334	0.292	0.040
320	0.040	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2508
$P_{C,s}$	0.5098
$P_{d,C}$	0.2986
$P_{e,d}$	0.2378
$P_{g,F}$	0.5629
$P_{i,h}$	0.8338
$P'_{s,t}$	0.2480
$P'_{C',s}$	0.5507
$P'_{d,C'}$	0.2487
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4989
$P'_{i,h}$	0.8245

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	0.0110
$\Delta P_{C,s}$	0.0063
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0083
$\Delta P_{i,g}$	-0.0520

Constants of Dispersion Formula	
$B_1$	1.86348331
$B_2$	0.413307255
$B_3$	1.35784815
$C_1$	0.00910368219
$C_2$	0.0339247268
$C_3$	93.3580595

Constants of Dispersion $dn/dT$	
$D_0$	$3.03 \cdot 10^{-6}$
$D_1$	$1.04 \cdot 10^{-8}$
$D_2$	$-1.30 \cdot 10^{-11}$
$E_0$	$6.62 \cdot 10^{-7}$
$E_1$	$7.82 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.209

Color Code	
$\lambda_{80}/\lambda_5$	37/32*
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.3
$T_g [^\circ C]$	651
$T_{10}^{13.0} [^\circ C]$	658
$T_{10}^{7.6} [^\circ C]$	739
$c_p [J/(g \cdot K)]$	0.490
$\lambda [W/(m \cdot K)]$	0.790
$\rho [g/cm^3]$	4.85
$E [10^3 N/mm^2]$	124
$\mu$	0.294
$K [10^{-6} mm^2/N]$	1.57
$HK_{0.1/20}$	760
<b>HG</b>	2
<b>CR</b>	1
<b>FR</b>	1
<b>SR</b>	4
<b>AR</b>	1
<b>PR</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	4.0	5.2	6.4	1.5	2.7	3.9
+20/ +40	4.0	5.4	6.8	2.4	3.8	5.2
+60/ +80	4.2	5.7	7.2	2.9	4.5	6.0