

## N-LASF40 834373.443

$n_d = 1.83404$	$v_d = 37.30$	$n_F - n_C = 0.022363$
$n_e = 1.83935$	$v_e = 37.04$	$n_F' - n_C' = 0.022658$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.78600
$n_{1970.1}$	1970.1	1.79298
$n_{1529.6}$	1529.6	1.80074
$n_{1060.0}$	1060.0	1.80999
$n_t$	1014.0	1.81118
$n_s$	852.1	1.81643
$n_f$	706.5	1.82380
$n_C$	656.3	1.82745
$n_{C'}$	643.8	1.82849
$n_{632.8}$	632.8	1.82946
$n_D$	589.3	1.83385
$n_d$	587.6	1.83404
$n_e$	546.1	1.83935
$n_F$	486.1	1.84981
$n_{F'}$	480.0	1.85114
$n_g$	435.8	1.86275
$n_h$	404.7	1.87393
$n_i$	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	
$B_1$	1.98550331
$B_2$	0.274057042
$B_3$	1.289456610
$C_1$	0.01095833100
$C_2$	0.0474551603
$C_3$	96.9085286

Constants of Formula for $dn/dT$	
$D_0$	8.10E-06
$D_1$	1.25E-08
$D_2$	-1.73E-11
$E_0$	8.27E-07
$E_1$	1.08E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.238

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	7.1	8.8	10.6	4.6	6.3	8.0
+20/+40	7.3	9.3	11.4	5.7	7.7	9.8
+60/+80	7.6	9.7	12.0	6.3	8.5	10.8

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.570	0.240
2325	0.810	0.590
1970	0.963	0.910
1530	0.993	0.982
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.994
620	0.997	0.993
580	0.997	0.992
546	0.995	0.988
500	0.987	0.969
460	0.973	0.930
436	0.954	0.890
420	0.940	0.850
405	0.910	0.780
400	0.890	0.750
390	0.840	0.650
380	0.760	0.510
370	0.600	0.280
365	0.470	0.150
350	0.040	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	39/35*

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2346
$P_{C,s}$	0.4929
$P_{d,C}$	0.2948
$P_{e,d}$	0.2371
$P_{g,F}$	0.5786
$P_{i,h}$	
$P'_{s,t}$	0.2315
$P'_{C,s}$	0.5321
$P'_{d,C'}$	0.2453
$P'_{e,d}$	0.2340
$P'_{g,F'}$	0.5124
$P'_{i,h}$	

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0055
$\Delta P_{C,s}$	0.0030
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0024
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	5.8
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.9
$T_g$ [°C]	590
$T_{10}^{13}$ [°C]	591
$T_{10}^{7.6}$ [°C]	677
$c_p$ [J/(g·K)]	0.550
$\lambda$ [W/(m·K)]	0.810
$\rho$ [g/cm <sup>3</sup> ]	4.43
$E$ [ $10^3$ N/mm <sup>2</sup> ]	111
$\mu$	0.304
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.19
$HK_{0.1/20}$	580
HG	1
CR	1
FR	1
SR	51.2
AR	1
PR	1.3