

## 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
$n_r$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.565	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	0.933
436	0.954	0.890
420	0.937	0.850
405	0.905	0.780
400	0.891	0.750
390	0.842	0.650
380	0.764	0.510
370	0.601	0.280
365	0.468	0.150
350	0.044	
334		
320		
310		
300		
290		
280		
270		
260		
250		

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 Dispersions $\Delta P$ 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
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.98550331
$B_2$	0.274057042
$B_3$	1.28945661
$C_1$	0.010958331
$C_2$	0.0474551603
$C_3$	96.9085286

Constants of Dispersion $dn/dT$	
$D_0$	$8.10 \cdot 10^{-6}$
$D_1$	$1.25 \cdot 10^{-8}$
$D_2$	$-1.73 \cdot 10^{-11}$
$E_0$	$8.27 \cdot 10^{-7}$
$E_1$	$1.08 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.238

Color Code	
$\lambda_{80}/\lambda_5$	39/35*
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.8
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.9
$T_g [^\circ C]$	590
$T_{10}^{13.0} [^\circ C]$	591
$T_{10}^{7.6} [^\circ C]$	677
$c_p [J/(g \cdot K)]$	0.550
$\lambda [W/(m \cdot K)]$	0.810
$\rho [g/cm^3]$	4.43
$E [10^3 N/mm^2]$	111
$\mu$	0.304
$K [10^{-6} mm^2/N]$	2.19
$HK_{0.1/20}$	580
$HG$	1
$CR$	1
$FR$	1
$SR$	51.2
$AR$	1
$PR$	1.3

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	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