

## N-LASF43 806406.426

$n_d = 1.80610$	$v_d = 40.61$	$n_F - n_C = 0.019850$
$n_e = 1.81081$	$v_e = 40.36$	$n_{F'} - n_{C'} = 0.020089$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.75901
$n_{1970.1}$	1970.1	1.76662
$n_{1529.6}$	1529.6	1.77488
$n_{1060.0}$	1060.0	1.78413
$n_t$	1014.0	1.78527
$n_s$	852.1	1.79018
$n_r$	706.5	1.79691
$n_C$	656.3	1.80020
$n_{C'}$	643.8	1.80113
$n_{632.8}$	632.8	1.80200
$n_D$	589.3	1.80593
$n_d$	587.6	1.80610
$n_e$	546.1	1.81081
$n_F$	486.1	1.82005
$n_{F'}$	480.0	1.82122
$n_g$	435.8	1.83137
$n_h$	404.7	1.84106
$n_i$	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	0.398	0.100
2325	0.713	0.430
1970	0.937	0.850
1530	0.984	0.960
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.997	0.993
580	0.996	0.991
546	0.995	0.988
500	0.990	0.975
460	0.980	0.950
436	0.967	0.920
420	0.954	0.890
405	0.933	0.840
400	0.919	0.810
390	0.882	0.730
380	0.821	0.610
370	0.707	0.420
365	0.618	0.300
350	0.221	0.020
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2476
$P_{C,s}$	0.5049
$P_{d,C}$	0.2972
$P_{e,d}$	0.2374
$P_{g,F}$	0.5703
$P_{i,h}$	
$P'_{s,t}$	0.2446
$P'_{C',s}$	0.5452
$P'_{d,C'}$	0.2473
$P'_{e,d}$	0.2346
$P'_{g,F'}$	0.5053
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0149
$\Delta P_{C,s}$	0.0073
$\Delta P_{F,e}$	-0.0016
$\Delta P_{g,F}$	-0.0052
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.93502827
$B_2$	0.23662935
$B_3$	1.26291344
$C_1$	0.0104001413
$C_2$	0.0447505292
$C_3$	87.437569

Constants of Dispersion $dn/dT$	
$D_0$	$4.77 \cdot 10^{-6}$
$D_1$	$1.14 \cdot 10^{-8}$
$D_2$	$-2.68 \cdot 10^{-12}$
$E_0$	$6.62 \cdot 10^{-7}$
$E_1$	$8.84 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.234

Color Code	
$\lambda_{80}/\lambda_5$	42/34
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.5
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.7
$T_g [^\circ C]$	614
$T_{10}^{13.0} [^\circ C]$	615
$T_{10}^{7.6} [^\circ C]$	699
$c_p [J/(g \cdot K)]$	0.550
$\lambda [W/(m \cdot K)]$	0.810
$\rho [g/cm^3]$	4.26
$E [10^3 N/mm^2]$	114
$\mu$	0.290
$K [10^{-6} mm^2/N]$	1.92
$HK_{0.1/20}$	720
$HG$	2
$CR$	1
$FR$	1
$SR$	51.3
$AR$	1
$PR$	2

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	4.9	6.2	7.6	2.5	3.8	5.0
+20/ +40	5.0	6.5	8.1	3.4	4.9	6.4
+60/ +80	5.2	6.9	8.6	4.0	5.6	7.4