

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		
	λ [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 τ_i		
λ [nm]	τ_i (10mm)	τ_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 ΔP 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	
λ_{80}/λ_5	42/34
(*= λ_{70}/λ_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
μ	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