

N-LASF9 850322.441

$n_d = 1.85025$	$v_d = 32.17$	$n_F - n_C = 0.026430$
$n_e = 1.85650$	$v_e = 31.93$	$n_{F'} - n_{C'} = 0.026827$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.80058
$n_{1970.1}$	1970.1	1.80659
$n_{1529.6}$	1529.6	1.81364
$n_{1060.0}$	1060.0	1.82293
n_t	1014.0	1.82420
n_s	852.1	1.82997
n_r	706.5	1.83834
n_C	656.3	1.84255
$n_{C'}$	643.8	1.84376
$n_{632.8}$	632.8	1.84489
n_D	589.3	1.85002
n_d	587.6	1.85025
n_e	546.1	1.85650
n_F	486.1	1.86898
$n_{F'}$	480.0	1.87058
n_g	435.8	1.88467
n_h	404.7	1.89845
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	0.814	0.598
2325	0.873	0.712
1970	0.967	0.919
1530	0.994	0.986
1060	0.998	0.994
700	0.994	0.986
660	0.992	0.981
620	0.992	0.979
580	0.991	0.978
546	0.989	0.972
500	0.978	0.945
460	0.958	0.898
436	0.933	0.840
420	0.901	0.770
405	0.831	0.630
400	0.799	0.570
390	0.693	0.400
380	0.525	0.200
370	0.270	0.040
365	0.137	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2181
$P_{C,s}$	0.4762
$P_{d,C}$	0.2912
$P_{e,d}$	0.2366
$P_{g,F}$	0.5934
$P_{i,h}$	
$P'_{s,t}$	0.2149
$P'_{C',s}$	0.5140
$P'_{d,C'}$	0.2420
$P'_{e,d}$	0.2330
$P'_{g,F'}$	0.5250
$P'_{i,h}$	

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"

$\Delta P_{C,t}$	-0.0032
$\Delta P_{C,s}$	-0.0016
$\Delta P_{F,e}$	0.0008
$\Delta P_{g,F}$	0.0037
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
B_1	2.00029547
B_2	0.298926886
B_3	1.80691843
C_1	0.0121426017
C_2	0.0538736236
C_3	156.530829

Constants of Dispersion dn/dT	
D_0	$1.05 \cdot 10^{-6}$
D_1	$1.02 \cdot 10^{-8}$
D_2	$-2.38 \cdot 10^{-11}$
E_0	$9.19 \cdot 10^{-7}$
E_1	$1.18 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.257

Color Code	
λ_{80}/λ_5	41/36*
(*= λ_{70}/λ_5)	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.4
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.4
$T_g [^\circ C]$	683
$T_{10}^{13.0} [^\circ C]$	700
$T_{10}^{7.6} [^\circ C]$	817
$c_p [J/(g \cdot K)]$	0.530
$\lambda [W/(m \cdot K)]$	0.790
$\rho [g/cm^3]$	4.41
$E [10^3 N/mm^2]$	109
μ	0.288
$K [10^{-6} mm^2/N]$	1.72
$HK_{0.1/20}$	515
HG	4
Abrasion Aa	120
CR	1
FR	0
SR	2
AR	1
PR	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	2.8	4.7	6.9	0.4	2.2	4.3
+20/ +40	2.9	5.1	7.7	1.4	3.5	6.0
+60/ +80	3.1	5.5	8.2	1.8	4.2	6.9