

## 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		
	$\lambda$ [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
$n_f$	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	

Constants of Dispersion Formula	
$B_1$	2.00029547
$B_2$	0.298926886
$B_3$	1.806918430
$C_1$	0.01214260170
$C_2$	0.0538736236
$C_3$	156.5308290

Constants of Formula for $dn/dT$	
$D_0$	1.05E-06
$D_1$	1.02E-08
$D_2$	-2.38E-11
$E_0$	9.19E-07
$E_1$	1.18E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.257

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	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

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.810	0.600
2325	0.870	0.710
1970	0.967	0.920
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	0.950
460	0.958	0.900
436	0.930	0.840
420	0.900	0.770
405	0.830	0.630
400	0.800	0.570
390	0.690	0.400
380	0.530	0.200
370	0.270	0.040
365	0.140	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	41/36*

Remarks

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

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.4
$T_g$ [°C]	683
$T_{10}^{13}$ [°C]	700
$T_{10}^{7.6}$ [°C]	817
$c_p$ [J/(g·K)]	0.530
$\lambda$ [W/(m·K)]	0.790
$\rho$ [g/cm <sup>3</sup> ]	4.41
$E$ [ $10^3$ N/mm <sup>2</sup> ]	109
$\mu$	0.288
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	1.72
$HK_{0.1/20}$	515
HG	4
Abrasion Aa	120
CR	1
FR	0
SR	2
AR	1
PR	1