

## 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
$n_r$	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 $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (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 $\Delta P$ 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
$\Delta P_{i,g}$	

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	
$\lambda_{80}/\lambda_5$	41/36*
(*= $\lambda_{70}/\lambda_5$ )	

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
$\mu$	0.288
$K [10^{-6} mm^2/N]$	1.72
$HK_{0.1/20}$	515
<b>HG</b>	4
<b>Abrasion Aa</b>	120
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	2
<b>AR</b>	1
<b>PR</b>	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