

## N-LASF44 804465.444

$n_d = 1.80420$	$v_d = 46.50$	$n_F - n_C = 0.017294$
$n_e = 1.80832$	$v_e = 46.25$	$n_{F'} - n_{C'} = 0.017476$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.76070
$n_{1970.1}$	1970.1	1.76801
$n_{1529.6}$	1529.6	1.77590
$n_{1060.0}$	1060.0	1.78455
$n_t$	1014.0	1.78560
$n_s$	852.1	1.79006
$n_r$	706.5	1.79609
$n_C$	656.3	1.79901
$n_{C'}$	643.8	1.79983
$n_{632.8}$	632.8	1.80060
$n_D$	589.3	1.80405
$n_d$	587.6	1.80420
$n_e$	546.1	1.80832
$n_F$	486.1	1.81630
$n_{F'}$	480.0	1.81731
$n_g$	435.8	1.82594
$n_h$	404.7	1.83405
$n_i$	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	0.468	0.150
2325	0.739	0.470
1970	0.946	0.870
1530	0.990	0.975
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.996	0.989
460	0.991	0.977
436	0.986	0.965
420	0.980	0.950
405	0.967	0.920
400	0.963	0.910
390	0.946	0.870
380	0.911	0.793
370	0.860	0.685
365	0.823	0.615
350	0.658	0.351
334	0.378	0.088
320	0.152	
310	0.068	
300	0.029	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2582
$P_{C,s}$	0.5171
$P_{d,C}$	0.3002
$P_{e,d}$	0.2380
$P_{g,F}$	0.5572
$P_{i,h}$	
$P'_{s,t}$	0.2555
$P'_{C',s}$	0.5588
$P'_{d,C'}$	0.2501
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4941
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0098
$\Delta P_{C,s}$	0.0058
$\Delta P_{F,e}$	-0.0021
$\Delta P_{g,F}$	-0.0084
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.78897105
$B_2$	0.38675867
$B_3$	1.30506243
$C_1$	0.00872506277
$C_2$	0.0308085023
$C_3$	92.7743824

Constants of Dispersion $dn/dT$	
$D_0$	$3.32 \cdot 10^{-6}$
$D_1$	$1.12 \cdot 10^{-8}$
$D_2$	$-8.52 \cdot 10^{-12}$
$E_0$	$5.88 \cdot 10^{-7}$
$E_1$	$7.13 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.209

Color Code	
$\lambda_{80}/\lambda_5$	40/31
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.4
$T_g [^\circ C]$	655
$T_{10}^{13.0} [^\circ C]$	659
$T_{10}^{7.6} [^\circ C]$	742
$c_p [J/(g \cdot K)]$	0.530
$\lambda [W/(m \cdot K)]$	0.820
$\rho [g/cm^3]$	4.44
$E [10^3 N/mm^2]$	124
$\mu$	0.293
$K [10^{-6} mm^2/N]$	1.41
$HK_{0.1/20}$	770
<b>HG</b>	2
<b>CR</b>	1
<b>FR</b>	1
<b>SR</b>	4
<b>AR</b>	1
<b>PR</b>	1

Temperature Coefficients of 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	4.0	5.1	6.1	1.6	2.6	3.6
+20/ +40	4.0	5.3	6.5	2.5	3.7	4.9
+60/ +80	4.2	5.6	6.9	3.0	4.4	5.7