

## N-LAF3 717480.414

$n_d = 1.71700$	$v_d = 47.96$	$n_F - n_C = 0.014950$
$n_e = 1.72055$	$v_e = 47.68$	$n_{F'} - n_{C'} = 0.015112$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.68061
$n_{1970.1}$	1970.1	1.68653
$n_{1529.6}$	1529.6	1.69297
$n_{1060.0}$	1060.0	1.70017
$n_t$	1014.0	1.70105
$n_s$	852.1	1.70485
$n_r$	706.5	1.71001
$n_C$	656.3	1.71252
$n_{C'}$	643.8	1.71323
$n_{632.8}$	632.8	1.71389
$n_D$	589.3	1.71687
$n_d$	587.6	1.71700
$n_e$	546.1	1.72055
$n_F$	486.1	1.72747
$n_{F'}$	480.0	1.72834
$n_g$	435.8	1.73585
$n_h$	404.7	1.74293
$n_i$	365.0	1.75530
$n_{334.1}$	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	0.626	0.310
2325	0.804	0.580
1970	0.950	0.880
1530	0.992	0.980
1060	0.997	0.993
700	0.997	0.993
660	0.997	0.993
620	0.997	0.993
580	0.997	0.993
546	0.997	0.993
500	0.994	0.985
460	0.987	0.968
436	0.982	0.955
420	0.976	0.940
405	0.963	0.910
400	0.954	0.890
390	0.928	0.830
380	0.877	0.720
370	0.782	0.540
365	0.707	0.420
350	0.314	0.060
334	0.006	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2538
$P_{C,s}$	0.5132
$P_{d,C}$	0.2994
$P_{e,d}$	0.2379
$P_{g,F}$	0.5603
$P_{i,h}$	0.8274
$P'_{s,t}$	0.2511
$P'_{C',s}$	0.5545
$P'_{d,C'}$	0.2494
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.4967
$P'_{i,h}$	0.8185

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

$\Delta P_{C,t}$	-0.0054
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0028
$\Delta P_{i,g}$	-0.0210

Constants of Dispersion Formula	
$B_1$	1.73155854
$B_2$	0.150874455
$B_3$	1.06586596
$C_1$	0.00953833914
$C_2$	0.0407887211
$C_3$	98.0758545

Constants of Dispersion $dn/dT$	
$D_0$	$-2.35 \cdot 10^{-6}$
$D_1$	$1.07 \cdot 10^{-8}$
$D_2$	$-9.38 \cdot 10^{-12}$
$E_0$	$5.72 \cdot 10^{-7}$
$E_1$	$6.01 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.22

Color Code	
$\lambda_{80}/\lambda_5$	39/34
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
inquiry glass	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.6
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.7
$T_g [^\circ C]$	646
$T_{10}^{13.0} [^\circ C]$	640
$T_{10}^{7.6} [^\circ C]$	740
$c_p [J/(g \cdot K)]$	
$\lambda [W/(m \cdot K)]$	
$\rho [g/cm^3]$	4.14
$E [10^3 N/mm^2]$	95
$\mu$	0.286
$K [10^{-6} mm^2/N]$	1.53
$HK_{0.1/20}$	580
<b>HG</b>	5
<b>CR</b>	2
<b>FR</b>	3
<b>SR</b>	52.3
<b>AR</b>	1.2
<b>PR</b>	3.3

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	0.6	1.5	2.5	-1.7	-0.8	0.1
+20/ +40	0.6	1.6	2.7	-0.9	0.1	1.2
+60/ +80	0.7	1.8	3.0	-0.4	0.7	1.8