

## N-BAF51 652450.333

$n_d = 1.65224$	$v_d = 44.96$	$n_F - n_C = 0.014507$
$n_e = 1.65569$	$v_e = 44.67$	$n_F' - n_C' = 0.014677$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.61873
$n_{1970.1}$	1970.1	1.62390
$n_{1529.6}$	1529.6	1.62961
$n_{1060.0}$	1060.0	1.63619
$n_t$	1014.0	1.63701
$n_s$	852.1	1.64059
$n_f$	706.5	1.64551
$n_C$	656.3	1.64792
$n_{C'}$	643.8	1.64860
$n_{632.8}$	632.8	1.64924
$n_D$	589.3	1.65211
$n_d$	587.6	1.65224
$n_e$	546.1	1.65569
$n_F$	486.1	1.66243
$n_{F'}$	480.0	1.66328
$n_g$	435.8	1.67065
$n_h$	404.7	1.67766
$n_i$	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	
$B_1$	1.51503623
$B_2$	0.153621958
$B_3$	1.154279090
$C_1$	0.00942734715
$C_2$	0.0430826500
$C_3$	124.8898680

Constants of Formula for $dn/dT$	
$D_0$	-2.84E-07
$D_1$	1.04E-08
$D_2$	-1.80E-11
$E_0$	7.01E-07
$E_1$	8.47E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.219

Temperature Coefficients of the Refractive Index						
[ $^{\circ}\text{C}$ ]	$\Delta n_{rel}/\Delta T$ [ $10^{-6}/\text{K}$ ]			$\Delta n_{abs}/\Delta T$ [ $10^{-6}/\text{K}$ ]		
	1060.0	e	g	1060.0	e	g
-40/-20	1.7	2.8	3.8	-0.5	0.5	1.5
+20/+40	1.7	2.9	4.1	0.3	1.5	2.7
+60/+80	1.8	3.1	4.4	0.7	2.0	3.3

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.750	0.480
2325	0.830	0.630
1970	0.950	0.870
1530	0.992	0.980
1060	0.997	0.993
700	0.997	0.993
660	0.996	0.990
620	0.996	0.990
580	0.997	0.992
546	0.996	0.991
500	0.994	0.985
460	0.988	0.970
436	0.982	0.956
420	0.976	0.940
405	0.963	0.910
400	0.954	0.890
390	0.920	0.820
380	0.860	0.690
370	0.740	0.470
365	0.640	0.330
350	0.210	0.020
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	39/34

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2463
$P_{C,s}$	0.5055
$P_{d,C}$	0.2977
$P_{e,d}$	0.2376
$P_{g,F}$	0.5670
$P_{i,h}$	
$P'_{s,t}$	0.2435
$P'_{C,s}$	0.5460
$P'_{d,C'}$	0.2479
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5024
$P'_{i,h}$	

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	-0.0064
$\Delta P_{C,s}$	-0.0022
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0012
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [ $10^{-6}/\text{K}$ ]	8.4
$\alpha_{+20/+300^{\circ}\text{C}}$ [ $10^{-6}/\text{K}$ ]	9.5
$T_g$ [ $^{\circ}\text{C}$ ]	569
$T_{10}^{13}$ [ $^{\circ}\text{C}$ ]	574
$T_{10}^{7.6}$ [ $^{\circ}\text{C}$ ]	712
$c_p$ [ $\text{J}/(\text{g}\cdot\text{K})$ ]	0.840
$\lambda$ [ $\text{W}/(\text{m}\cdot\text{K})$ ]	0.670
$\rho$ [ $\text{g}/\text{cm}^3$ ]	3.33
$E$ [ $10^3 \text{ N}/\text{mm}^2$ ]	91
$\mu$	0.262
$K$ [ $10^{-6} \text{ mm}^2/\text{N}$ ]	2.22
$HK_{0.1/20}$	560
HG	5
CR	2
FR	0
SR	5.4
AR	1.3
PR	1