

## N-BAF10 670471.375

$n_d = 1.67003$	$v_d = 47.11$	$n_F - n_C = 0.014222$
$n_e = 1.67341$	$v_e = 46.83$	$n_{F'} - n_{C'} = 0.014380$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.63524
$n_{1970.1}$	1970.1	1.64094
$n_{1529.6}$	1529.6	1.64714
$n_{1060.0}$	1060.0	1.65404
$n_t$	1014.0	1.65488
$n_s$	852.1	1.65849
$n_r$	706.5	1.66339
$n_C$	656.3	1.66578
$n_{C'}$	643.8	1.66645
$n_{632.8}$	632.8	1.66708
$n_D$	589.3	1.66990
$n_d$	587.6	1.67003
$n_e$	546.1	1.67341
$n_F$	486.1	1.68000
$n_{F'}$	480.0	1.68083
$n_g$	435.8	1.68801
$n_h$	404.7	1.69480
$n_i$	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	0.727	0.450
2325	0.857	0.680
1970	0.967	0.920
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.994
660	0.996	0.990
620	0.996	0.991
580	0.996	0.990
546	0.996	0.990
500	0.992	0.981
460	0.987	0.967
436	0.981	0.954
420	0.976	0.940
405	0.959	0.900
400	0.950	0.880
390	0.915	0.800
380	0.847	0.660
370	0.720	0.440
365	0.626	0.310
350	0.176	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2539
$P_{C,s}$	0.5122
$P_{d,C}$	0.2989
$P_{e,d}$	0.2377
$P_{g,F}$	0.5629
$P_{i,h}$	
$P'_{s,t}$	0.2511
$P'_{C',s}$	0.5533
$P'_{d,C'}$	0.2489
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4990
$P'_{i,h}$	

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

$\Delta P_{C,t}$	-0.0024
$\Delta P_{C,s}$	-0.0005
$\Delta P_{F,e}$	-0.0003
$\Delta P_{g,F}$	-0.0016
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.5851495
$B_2$	0.143559385
$B_3$	1.08521269
$C_1$	0.00926681282
$C_2$	0.0424489805
$C_3$	105.613573

Constants of Dispersion $dn/dT$	
$D_0$	$3.79 \cdot 10^{-6}$
$D_1$	$1.28 \cdot 10^{-8}$
$D_2$	$-1.42 \cdot 10^{-11}$
$E_0$	$5.84 \cdot 10^{-7}$
$E_1$	$7.60 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.22

Color Code	
$\lambda_{80}/\lambda_5$	39/35
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.0
$T_g [^\circ C]$	660
$T_{10}^{13.0} [^\circ C]$	652
$T_{10}^{7.6} [^\circ C]$	790
$c_p [J/(g \cdot K)]$	0.560
$\lambda [W/(m \cdot K)]$	0.780
$\rho [g/cm^3]$	3.75
$E [10^3 N/mm^2]$	89
$\mu$	0.271
$K [10^{-6} mm^2/N]$	2.37
$HK_{0.1/20}$	620
HG	4
CR	1
FR	0
SR	4.3
AR	1.3
PR	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	3.7	4.7	5.6	1.5	2.4	3.3
+20/ +40	3.8	4.9	6.0	2.4	3.5	4.5
+60/ +80	4.0	5.2	6.4	2.9	4.1	5.3