

## N-BAF10 670471.375

$n_d = 1.67003$   
 $n_e = 1.67341$

$v_d = 47.11$   
 $v_e = 46.83$

$n_F - n_C = 0.014222$   
 $n_{F'} - n_{C'} = 0.014380$

### 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	

### Constants of Dispersion Formula

$B_1$	1.585149500
$B_2$	0.143559385
$B_3$	1.085212690
$C_1$	0.009266813
$C_2$	0.0424489805
$C_3$	105.61357300

### Constants of Formula for $dn/dT$

$D_0$	3.79E-06
$D_1$	1.28E-08
$D_2$	-1.42E-11
$E_0$	5.84E-07
$E_1$	7.60E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.220

### Temperature Coefficients of the 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	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

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.730	0.450
2325	0.860	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	0.920	0.800
380	0.850	0.660
370	0.720	0.440
365	0.630	0.310
350	0.180	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  39/35

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2539
$P_{C,s}$	0.5122
$P_{d,C}$	0.2989
$P_{e,d}$	0.2377
$P_{g,F}$	0.5629
$P_{i,h}$	

### Relative Partial Dispersion P'

$P'_{s,t}$	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 Rel. Partial Disp.

#### $\Delta P$ 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
$\Delta P_{i,g}$	

### Chemical Properties

CR	1
FR	0
SR	4.3
AR	1.3
PR	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.2
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.0
$T_g$ [°C]	660
$T_{10}^{13}$ [°C]	652
$T_{10}^{7.6}$ [°C]	790
$c_p$ [J/(g·K)]	0.560
$\lambda$ [W/(m·K)]	0.780
$\rho$ [g/cm <sup>3</sup> ]	3.75
$E$ [ $10^3$ N/mm <sup>2</sup> ]	89
$\mu$	0.271
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.37
$HK_{0.1/20}$	620
HG	4