

## N-BAF4 606437.289

$n_d = 1.60568$	$v_d = 43.72$	$n_F - n_C = 0.013853$
$n_e = 1.60897$	$v_e = 43.43$	$n_{F'} - n_{C'} = 0.014021$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.57092
$n_{1970.1}$	1970.1	1.57685
$n_{1529.6}$	1529.6	1.58323
$n_{1060.0}$	1060.0	1.59016
$n_t$	1014.0	1.59099
$n_s$	852.1	1.59452
$n_r$	706.5	1.59926
$n_C$	656.3	1.60157
$n_{C'}$	643.8	1.60222
$n_{632.8}$	632.8	1.60282
$n_D$	589.3	1.60556
$n_d$	587.6	1.60568
$n_e$	546.1	1.60897
$n_F$	486.1	1.61542
$n_{F'}$	480.0	1.61624
$n_g$	435.8	1.62336
$n_h$	404.7	1.63022
$n_i$	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	0.707	0.420
2325	0.837	0.640
1970	0.954	0.890
1530	0.991	0.977
1060	0.998	0.994
700	0.998	0.994
660	0.996	0.991
620	0.996	0.990
580	0.997	0.992
546	0.997	0.992
500	0.994	0.985
460	0.988	0.971
436	0.983	0.959
420	0.976	0.940
405	0.959	0.900
400	0.946	0.870
390	0.901	0.770
380	0.804	0.580
370	0.601	0.280
365	0.442	0.130
350	0.012	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2545
$P_{C,s}$	0.5089
$P_{d,C}$	0.2972
$P_{e,d}$	0.2372
$P_{g,F}$	0.5733
$P_{i,h}$	
$P'_{s,t}$	0.2515
$P'_{C',s}$	0.5491
$P'_{d,C'}$	0.2473
$P'_{e,d}$	0.2344
$P'_{g,F'}$	0.5081
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0110
$\Delta P_{C,s}$	0.0041
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0030
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.42056328
$B_2$	0.102721269
$B_3$	1.14380976
$C_1$	0.00942015382
$C_2$	0.0531087291
$C_3$	110.278856

Constants of Dispersion $dn/dT$	
$D_0$	$9.39 \cdot 10^{-7}$
$D_1$	$1.24 \cdot 10^{-8}$
$D_2$	$-9.00 \cdot 10^{-12}$
$E_0$	$6.17 \cdot 10^{-7}$
$E_1$	$8.42 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.242

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

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.3
$T_g [^\circ C]$	580
$T_{10}^{13.0} [^\circ C]$	580
$T_{10}^{7.6} [^\circ C]$	709
$c_p [J/(g \cdot K)]$	0.740
$\lambda [W/(m \cdot K)]$	1.020
$\rho [g/cm^3]$	2.89
$E [10^3 N/mm^2]$	85
$\mu$	0.231
$K [10^{-6} mm^2/N]$	2.58
$HK_{0.1/20}$	610
$HG$	3
$CR$	1
$FR$	0
$SR$	1
$AR$	1.2
$PR$	1.3

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	2.2	3.1	4.1	0.1	0.9	1.9
+20/ +40	2.2	3.3	4.5	0.9	1.9	3.0
+60/ +80	2.4	3.6	4.9	1.3	2.5	3.8