

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		
	λ [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	1.5851495
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

Temperature Coefficients of 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 τ_i		
λ [nm]	τ_i (10mm)	τ_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		

Color Code	
λ_{80} / λ_5	39/35
(* = λ_{70} / λ_5)	

Remarks

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 ΔP 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
$\Delta P_{i,g}$	

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
μ	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