

## N-BAF52 609466.305

$n_d = 1.60863$

$v_d = 46.60$

$n_F - n_C = 0.013061$

$n_e = 1.61173$

$v_e = 46.30$

$n_F - n_C = 0.013211$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.57475
$n_{1970.1}$	1970.1	1.58067
$n_{1529.6}$	1529.6	1.58702
$n_{1060.0}$	1060.0	1.59381
$n_t$	1014.0	1.59461
$n_s$	852.1	1.59801
$n_r$	706.5	1.60254
$n_C$	656.3	1.60473
$n_{C'}$	643.8	1.60535
$n_{632.8}$	632.8	1.60593
$n_D$	589.3	1.60852
$n_d$	587.6	1.60863
$n_e$	546.1	1.61173
$n_F$	486.1	1.61779
$n_{F'}$	480.0	1.61856
$n_g$	435.8	1.62521
$n_h$	404.7	1.63157
$n_i$	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

$B_1$	1.439034330
$B_2$	0.096704605
$B_3$	1.098758180
$C_1$	0.009078001
$C_2$	0.0508212080
$C_3$	105.69185600

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

$D_0$	1.15E-06
$D_1$	1.27E-08
$D_2$	-5.08E-12
$E_0$	5.64E-07
$E_1$	6.38E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.238

### 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	2.3	3.1	4.0	0.2	0.9	1.8
+20/+40	2.3	3.3	4.3	0.9	1.9	2.9
+60/+80	2.5	3.6	4.7	1.4	2.5	3.6

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.690	0.390
2325	0.830	0.630
1970	0.954	0.890
1530	0.990	0.975
1060	0.998	0.994
700	0.997	0.993
660	0.996	0.990
620	0.996	0.989
580	0.996	0.990
546	0.996	0.989
500	0.992	0.980
460	0.987	0.967
436	0.981	0.954
420	0.975	0.940
405	0.959	0.900
400	0.950	0.880
390	0.910	0.800
380	0.840	0.650
370	0.670	0.370
365	0.540	0.210
350	0.050	
334		
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_{5}$  39/35

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2600
$P_{C,s}$	0.5147
$P_{d,C}$	0.2985
$P_{e,d}$	0.2374
$P_{g,F}$	0.5678
$P_{i,h}$	

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2571
$P'_{C,s}$	0.5555
$P'_{d,C'}$	0.2485
$P'_{e,d}$	0.2348
$P'_{g,F'}$	0.5035
$P'_{i,h}$	

### Deviation of Rel. Partial Disp.

#### $\Delta P$ from the normal line

$\Delta P_{C,t}$	0.0087
$\Delta P_{C,s}$	0.0031
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0024
$\Delta P_{i,g}$	

### Chemical Properties

CR	1
FR	0
SR	1
AR	1.3
PR	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	6.9
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.8
$T_g$ [°C]	594
$T_{10}^{13}$ [°C]	596
$T_{10}^{7.6}$ [°C]	716
$c_p$ [J/(g·K)]	0.680
$\lambda$ [W/(m·K)]	0.960
$\rho$ [g/cm <sup>3</sup> ]	3.05
$E$ [ $10^3$ N/mm <sup>2</sup> ]	86
$\mu$	0.237
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.42
$HK_{0.1/20}$	600
HG	3