

## N-BASF2 664360.315

$n_d = 1.66446$	$v_d = 36.00$	$n_F - n_C = 0.018457$
$n_e = 1.66883$	$v_e = 35.73$	$n_{F'} - n_{C'} = 0.018720$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.62552
$n_{1970.1}$	1970.1	1.63109
$n_{1529.6}$	1529.6	1.63734
$n_{1060.0}$	1060.0	1.64484
$n_t$	1014.0	1.64581
$n_s$	852.1	1.65007
$n_r$	706.5	1.65607
$n_C$	656.3	1.65905
$n_{C'}$	643.8	1.65990
$n_{632.8}$	632.8	1.66070
$n_D$	589.3	1.66430
$n_d$	587.6	1.66446
$n_e$	546.1	1.66883
$n_F$	486.1	1.67751
$n_{F'}$	480.0	1.67862
$n_g$	435.8	1.68838
$n_h$	404.7	1.69792
$n_i$	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	0.857	0.680
2325	0.896	0.760
1970	0.971	0.930
1530	0.994	0.985
1060	0.999	0.997
700	0.996	0.990
660	0.994	0.985
620	0.994	0.985
580	0.995	0.987
546	0.994	0.985
500	0.988	0.971
460	0.980	0.951
436	0.971	0.930
420	0.954	0.890
405	0.915	0.800
400	0.891	0.750
390	0.804	0.580
380	0.634	0.320
370	0.325	0.060
365	0.158	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2309
$P_{C,s}$	0.4869
$P_{d,C}$	0.2929
$P_{e,d}$	0.2367
$P_{g,F}$	0.5890
$P_{i,h}$	
$P'_{s,t}$	0.2277
$P'_{C',s}$	0.5253
$P'_{d,C'}$	0.2435
$P'_{e,d}$	0.2333
$P'_{g,F'}$	0.5214
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0021
$\Delta P_{C,s}$	0.0001
$\Delta P_{F,e}$	0.0010
$\Delta P_{g,F}$	0.0057
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.53652081
$B_2$	0.156971102
$B_3$	1.30196815
$C_1$	0.0108435729
$C_2$	0.0562278762
$C_3$	131.3397

Constants of Dispersion $dn/dT$	
$D_0$	$1.89 \cdot 10^{-6}$
$D_1$	$1.22 \cdot 10^{-8}$
$D_2$	$-1.61 \cdot 10^{-11}$
$E_0$	$7.77 \cdot 10^{-7}$
$E_1$	$9.96 \cdot 10^{-10}$
$\lambda_{TK}$ [μm]	0.256

Color Code	
$\lambda_{80}/\lambda_5$	41/36
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	7.1
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	8.1
$T_g$ [°C]	619
$T_{10}^{13.0}$ [°C]	622
$T_{10}^{7.6}$ [°C]	766
$c_p$ [J/(g·K)]	0.660
$\lambda$ [W/(m·K)]	0.940
$\rho$ [g/cm <sup>3</sup> ]	3.15
$E$ [ $10^3$ N/mm <sup>2</sup> ]	84
$\mu$	0.247
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	3.04
$HK_{0.1/20}$	580
<b>HG</b>	3
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	1
<b>AR</b>	1
<b>PR</b>	1

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	2.8	4.1	5.6	0.6	1.9	3.3
+20/ +40	2.9	4.4	6.2	1.5	3.0	4.7
+60/ +80	3.1	4.8	6.7	2.0	3.6	5.5