

## N-BASF64 704394.320

$n_d = 1.70400$	$v_d = 39.38$	$n_F - n_C = 0.017875$
$n_e = 1.70824$	$v_e = 39.12$	$n_F' - n_C' = 0.018105$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.66373
$n_{1970.1}$	1970.1	1.66988
$n_{1529.6}$	1529.6	1.67667
$n_{1060.0}$	1060.0	1.68453
$n_t$	1014.0	1.68551
$n_s$	852.1	1.68982
$n_f$	706.5	1.69578
$n_C$	656.3	1.69872
$n_{C'}$	643.8	1.69955
$n_{632.8}$	632.8	1.70033
$n_D$	589.3	1.70384
$n_d$	587.6	1.70400
$n_e$	546.1	1.70824
$n_F$	486.1	1.71659
$n_{F'}$	480.0	1.71765
$n_g$	435.8	1.72690
$n_h$	404.7	1.73581
$n_i$	365.0	1.75184
$n_{334.1}$	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	0.730	0.450
2325	0.850	0.670
1970	0.959	0.900
1530	0.988	0.970
1060	0.994	0.985
700	0.988	0.970
660	0.982	0.955
620	0.979	0.950
580	0.979	0.950
546	0.980	0.950
500	0.976	0.940
460	0.967	0.920
436	0.959	0.900
420	0.950	0.880
405	0.930	0.840
400	0.920	0.820
390	0.890	0.750
380	0.820	0.610
370	0.670	0.370
365	0.550	0.220
350	0.090	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2408
$P_{C,s}$	0.4979
$P_{d,C}$	0.2956
$P_{e,d}$	0.2372
$P_{g,F}$	0.5769
$P_{i,h}$	0.8970
$P'_{s,t}$	0.2377
$P'_{C,s}$	0.5375
$P'_{d,C'}$	0.2459
$P'_{e,d}$	0.2342
$P'_{g,F'}$	0.5110
$P'_{i,h}$	0.8856

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0069
$\Delta P_{C,s}$	0.0032
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0006
$\Delta P_{i,g}$	0.0012

Constants of Dispersion Formula	
$B_1$	1.65554268
$B_2$	0.171319770
$B_3$	1.336644480
$C_1$	0.01044856440
$C_2$	0.0499394756
$C_3$	118.9614720

Color Code	
$\lambda_{80} / \lambda_5$	40/35

Remarks	
(*= $\lambda_{70}/\lambda_5$ )	

Constants of Formula for $dn/dT$	
$D_0$	1.60E-06
$D_1$	1.02E-08
$D_2$	-2.68E-11
$E_0$	7.87E-07
$E_1$	9.65E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.229

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	7.3
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	8.7
$T_g$ [ $^\circ\text{C}$ ]	582
$T_{10}^{13}$ [ $^\circ\text{C}$ ]	585
$T_{10}^{7.6}$ [ $^\circ\text{C}$ ]	712
$c_p$ [ $\text{J}/(\text{g}\cdot\text{K})$ ]	
$\lambda$ [ $\text{W}/(\text{m}\cdot\text{K})$ ]	
$\rho$ [ $\text{g}/\text{cm}^3$ ]	3.20
$E$ [ $10^3 \text{ N}/\text{mm}^2$ ]	105
$\mu$	0.264
$K$ [ $10^{-6} \text{ mm}^2/\text{N}$ ]	2.38
$HK_{0.1/20}$	650
HG	4
CR	1
FR	0
SR	3.2
AR	1.2
PR	1

Temperature Coefficients of the Refractive Index						
[ $^\circ\text{C}$ ]	$\Delta n_{rel}/\Delta T$ [ $10^{-6}/\text{K}$ ]			$\Delta n_{abs}/\Delta T$ [ $10^{-6}/\text{K}$ ]		
	1060.0	e	g	1060.0	e	g
-40/-20	2.8	4.1	5.5	0.6	1.8	3.1
+20/+40	2.8	4.3	5.9	1.4	2.8	4.4
+60/+80	2.9	4.5	6.3	1.8	3.4	5.1