

## 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
$n_r$	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)
<b>2500</b>	0.727	0.450
<b>2325</b>	0.852	0.670
<b>1970</b>	0.959	0.900
<b>1530</b>	0.988	0.970
<b>1060</b>	0.994	0.985
<b>700</b>	0.988	0.970
<b>660</b>	0.982	0.955
<b>620</b>	0.979	0.949
<b>580</b>	0.979	0.949
<b>546</b>	0.980	0.950
<b>500</b>	0.976	0.940
<b>460</b>	0.967	0.920
<b>436</b>	0.959	0.900
<b>420</b>	0.950	0.880
<b>405</b>	0.933	0.840
<b>400</b>	0.924	0.820
<b>390</b>	0.891	0.750
<b>380</b>	0.821	0.610
<b>370</b>	0.672	0.370
<b>365</b>	0.546	0.220
<b>350</b>	0.090	
<b>334</b>		
<b>320</b>		
<b>310</b>		
<b>300</b>		
<b>290</b>		
<b>280</b>		
<b>270</b>		
<b>260</b>		
<b>250</b>		

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 Dispersions $\Delta P$ 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
$B_2$	0.17131977
$B_3$	1.33664448
$C_1$	0.0104485644
$C_2$	0.0499394756
$C_3$	118.961472

Color Code	
$\lambda_{80}/\lambda_5$	40/35
(*= $\lambda_{70}/\lambda_5$ )	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.3
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.7
$T_g [^\circ C]$	582
$T_{10}^{13.0} [^\circ C]$	585
$T_{10}^{7.6} [^\circ C]$	712
$c_p [J/(g \cdot K)]$	
$\lambda [W/(m \cdot K)]$	
$\rho [g/cm^3]$	3.20
$E [10^3 N/mm^2]$	105
$\mu$	0.264
$K [10^{-6} mm^2/N]$	2.38
$HK_{0.1/20}$	650
<b>HG</b>	4
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	3.2
<b>AR</b>	1.2
<b>PR</b>	1

Constants of Dispersion dn/dT	
$D_0$	$1.60 \cdot 10^{-6}$
$D_1$	$1.02 \cdot 10^{-8}$
$D_2$	$-2.68 \cdot 10^{-11}$
$E_0$	$7.87 \cdot 10^{-7}$
$E_1$	$9.65 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.229

Remarks	

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
[ $^\circ C$ ]	<b>1060.0</b>	<b>e</b>	<b>g</b>	<b>1060.0</b>	<b>e</b>	<b>g</b>
-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