

## 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	

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

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

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	5.5	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

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.727	0.450
2325	0.852	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	0.949
580	0.979	0.949
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	0.933	0.840
400	0.924	0.820
390	0.891	0.750
380	0.821	0.610
370	0.672	0.370
365	0.546	0.220
350	0.090	
334		
320		
310		
300		
290		
280		
270		
260		
250		

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

Remarks

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

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
HG	4
CR	1
FR	0
SR	3.2
AR	1.2
PR	1