

## N-BK10 498670.239

$n_d = 1.49782$	$v_d = 66.95$	$n_F - n_C = 0.007435$
$n_e = 1.49960$	$v_e = 66.78$	$n_{F'} - n_{C'} = 0.007481$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.47060
$n_{1970.1}$	1970.1	1.47647
$n_{1529.6}$	1529.6	1.48252
$n_{1060.0}$	1060.0	1.48827
$n_t$	1014.0	1.48887
$n_s$	852.1	1.49127
$n_r$	706.5	1.49419
$n_C$	656.3	1.49552
$n_{C'}$	643.8	1.49589
$n_{632.8}$	632.8	1.49623
$n_D$	589.3	1.49775
$n_d$	587.6	1.49782
$n_e$	546.1	1.49960
$n_F$	486.1	1.50296
$n_{F'}$	480.0	1.50337
$n_g$	435.8	1.50690
$n_h$	404.7	1.51014
$n_i$	365.0	1.51561
$n_{334.1}$	334.1	1.52144
$n_{312.6}$	312.6	1.52674
$n_{296.7}$	296.7	1.53151
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.739	0.470
2325	0.872	0.710
1970	0.980	0.950
1530	0.992	0.980
1060	0.998	0.996
700	0.998	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.993
500	0.996	0.991
460	0.996	0.990
436	0.996	0.989
420	0.996	0.989
405	0.996	0.990
400	0.996	0.990
390	0.996	0.989
380	0.994	0.985
370	0.994	0.986
365	0.994	0.986
350	0.991	0.978
334	0.978	0.947
320	0.941	0.860
310	0.872	0.710
300	0.707	0.420
290	0.414	0.110
280	0.123	
270	0.010	
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.3224
$P_{C,s}$	0.5716
$P_{d,C}$	0.3093
$P_{e,d}$	0.2387
$P_{g,F}$	0.5303
$P_{i,h}$	0.7360
$P'_{s,t}$	0.3204
$P'_{C',s}$	0.6174
$P'_{d,C'}$	0.2580
$P'_{e,d}$	0.2373
$P'_{g,F'}$	0.4716
$P'_{i,h}$	0.7315

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

$\Delta P_{C,t}$	0.0314
$\Delta P_{C,s}$	0.0126
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	-0.0008
$\Delta P_{i,g}$	0.0091

Constants of Dispersion Formula	
$B_1$	0.888308131
$B_2$	0.328964475
$B_3$	0.984610769
$C_1$	0.00516900822
$C_2$	0.0161190045
$C_3$	99.7575331

Constants of Dispersion $dn/dT$	
$D_0$	$3.32 \cdot 10^{-6}$
$D_1$	$1.72 \cdot 10^{-8}$
$D_2$	$-2.05 \cdot 10^{-11}$
$E_0$	$3.57 \cdot 10^{-7}$
$E_1$	$3.90 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.169

Color Code	
$\lambda_{80}/\lambda_5$	31/27
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.8
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	6.6
$T_g [^\circ C]$	551
$T_{10}^{13.0} [^\circ C]$	0
$T_{10}^{7.6} [^\circ C]$	753
$c_p [J/(g \cdot K)]$	0.810
$\lambda [W/(m \cdot K)]$	1.320
$\rho [g/cm^3]$	2.39
$E [10^3 N/mm^2]$	71
$\mu$	0.203
$K [10^{-6} mm^2/N]$	3.21
$HK_{0.1/20}$	560
<b>HG</b>	4
<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						
[ $^\circ C$ ]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	1060.0	e	g	1060.0	e	g
-40/ -20	2.7	3.1	3.5	0.7	1.1	1.4
+20/ +40	2.9	3.4	3.8	1.6	2.1	2.5
+60/ +80	3.1	3.7	4.1	2.1	2.6	3.1