

## N-BAK4 569560.305

$n_d = 1.56883$	$v_d = 55.98$	$n_F - n_C = 0.010162$
$n_e = 1.57125$	$v_e = 55.70$	$n_{F'} - n_{C'} = 0.010255$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.54044
$n_{1970.1}$	1970.1	1.54561
$n_{1529.6}$	1529.6	1.55111
$n_{1060.0}$	1060.0	1.55688
$n_t$	1014.0	1.55755
$n_s$	852.1	1.56034
$n_r$	706.5	1.56400
$n_C$	656.3	1.56575
$n_{C'}$	643.8	1.56624
$n_{632.8}$	632.8	1.56670
$n_D$	589.3	1.56874
$n_d$	587.6	1.56883
$n_e$	546.1	1.57125
$n_F$	486.1	1.57591
$n_{F'}$	480.0	1.57649
$n_g$	435.8	1.58149
$n_h$	404.7	1.58614
$n_i$	365.0	1.59415
$n_{334.1}$	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	0.782	0.540
2325	0.872	0.710
1970	0.959	0.900
1530	0.993	0.982
1060	0.998	0.995
700	0.999	0.997
660	0.998	0.995
620	0.998	0.995
580	0.998	0.996
546	0.998	0.996
500	0.998	0.994
460	0.996	0.989
436	0.995	0.988
420	0.995	0.987
405	0.993	0.983
400	0.992	0.980
390	0.987	0.967
380	0.976	0.940
370	0.954	0.890
365	0.933	0.840
350	0.787	0.550
334	0.345	0.070
320	0.012	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2749
$P_{C,s}$	0.5321
$P_{d,C}$	0.3029
$P_{e,d}$	0.2383
$P_{g,F}$	0.5487
$P_{i,h}$	0.7879
$P'_{s,t}$	0.2724
$P'_{C',s}$	0.5750
$P'_{d,C'}$	0.2524
$P'_{e,d}$	0.2361
$P'_{g,F'}$	0.4869
$P'_{i,h}$	0.7807

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

$\Delta P_{C,t}$	-0.0034
$\Delta P_{C,s}$	-0.0013
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0010
$\Delta P_{i,g}$	-0.0087

Constants of Dispersion Formula	
$B_1$	1.28834642
$B_2$	0.132817724
$B_3$	0.945395373
$C_1$	0.00779980626
$C_2$	0.0315631177
$C_3$	105.965875

Constants of Dispersion $dn/dT$	
$D_0$	$3.06 \cdot 10^{-6}$
$D_1$	$1.44 \cdot 10^{-8}$
$D_2$	$-2.23 \cdot 10^{-11}$
$E_0$	$5.46 \cdot 10^{-7}$
$E_1$	$6.05 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.189

Color Code	
$\lambda_{80}/\lambda_5$	36/33
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.9
$T_g [^\circ C]$	581
$T_{10}^{13.0} [^\circ C]$	569
$T_{10}^{7.6} [^\circ C]$	725
$c_p [J/(g \cdot K)]$	0.680
$\lambda [W/(m \cdot K)]$	0.880
$\rho [g/cm^3]$	3.05
$E [10^3 N/mm^2]$	77
$\mu$	0.240
$K [10^{-6} mm^2/N]$	2.90
$HK_{0.1/20}$	550
<b>HG</b>	2
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	1.2
<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	3.0	3.7	4.4	0.9	1.5	2.2
+20/ +40	3.1	3.9	4.7	1.8	2.6	3.3
+60/ +80	3.3	4.2	5.0	2.2	3.1	3.9