

## N-BAK4HT 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	0.854	0.673
2325	0.920	0.811
1970	0.979	0.949
1530	0.996	0.991
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.996
620	0.998	0.996
580	0.998	0.996
546	0.998	0.996
500	0.998	0.995
460	0.997	0.993
436	0.997	0.992
420	0.996	0.991
405	0.994	0.985
400	0.993	0.983
390	0.989	0.972
380	0.979	0.949
370	0.959	0.900
365	0.941	0.859
350	0.812	0.595
334	0.390	0.095
320	0.015	
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