

## 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	

### Constants of Dispersion Formula

$B_1$	1.288346420
$B_2$	0.132817724
$B_3$	0.945395373
$C_1$	0.007799806
$C_2$	0.0315631177
$C_3$	105.96587500

### Constants of Formula for $dn/dT$

$D_0$	3.06E-06
$D_1$	1.44E-08
$D_2$	-2.23E-11
$E_0$	5.46E-07
$E_1$	6.05E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.189

### Temperature Coefficients of the 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	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

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.850	0.670
2325	0.920	0.810
1970	0.979	0.950
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	0.950
370	0.959	0.900
365	0.940	0.860
350	0.810	0.600
334	0.390	0.100
320	0.020	0.000
310	0.000	
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  36/32

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	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

### Relative Partial Dispersion P'

$P'_{s,t}$	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 Rel. Partial Disp.

#### $\Delta P$ 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

### Chemical Properties

CR	1
FR	0
SR	1.2
AR	1
PR	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.0
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.9
$T_g$ [°C]	581
$T_{10}^{13}$ [°C]	569
$T_{10}^{7.6}$ [°C]	725
$c_p$ [J/(g·K)]	0.680
$\lambda$ [W/(m·K)]	0.880
$\rho$ [g/cm <sup>3</sup> ]	3.05
$E$ [ $10^3$ N/mm <sup>2</sup> ]	77
$\mu$	0.240
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.90
HK <sub>0.1/20</sub>	550
HG	2