

<b>H-BaK7B</b>	<b>569560</b>	$n_d = 1.56883$	$v_d = 56.04$	$n_F - n_C = 0.010150$
		$n_e = 1.57125$	$v_e = 55.78$	$n_F - n_C = 0.010242$

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	2325.42	1.54079
$n_{1970}$	1970.09	1.54574
$n_{1530}$	1529.58	1.55115
$n_{1129}$	1128.64	1.55598
$n_{1064}$	1064.00	1.55686
$n_t$	1013.98	1.55758
$n_s$	852.11	1.56036
$n_{A'}$	768.19	1.56227
$n_f$	706.52	1.56401
$n_C$	656.27	1.56575
$n_{C'}$	643.85	1.56624
$n_{He-Ne}$	632.80	1.56670
$n_D$	589.29	1.56874
$n_d$	587.56	1.56883
$n_e$	546.07	1.57125
$n_F$	486.13	1.57590
$n_{F'}$	479.99	1.57648
$n_g$	435.84	1.58147
$n_h$	404.66	1.58611
$n_i$	365.01	1.59408

Relative Partial Dispersion	
$P_{d,C}$	0.3034
$P_{e,d}$	0.2384
$P_{g,F}$	0.5488
$P'_{d,c'}$	0.2529
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4872

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D <sub>W</sub>	1
D <sub>A</sub>	1
R <sub>OH</sub> (S)	1
RP (S)	1
CR	

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.934	0.872
2200	0.953	0.908
2000	0.979	0.958
1800	0.988	0.976
1600	0.997	0.994
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.999	0.998
480	0.999	0.998
460	0.998	0.996
440	0.997	0.994
420	0.996	0.992
400	0.994	0.990
390	0.992	0.986
380	0.988	0.980
370	0.982	0.965
360	0.961	0.928
350	0.917	0.845
340	0.808	0.654
330	0.560	0.315
320	0.192	0.039
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0011
$\Delta P_{g,F}$	-0.0017
$\Delta P_{C,t}$	-0.0067
$\Delta P_{C,s}$	-0.0039

Expansion Coefficient $\alpha$ ( $\times 10^{-7}/K$ )	
$^{\circ}C$	$\alpha$
-50/-40	62
-40/-30	62
-30/-20	63
-20/-10	63
-10/0	65
0/10	66
10/20	67
20/30	67
30/40	68
40/50	74
50/60	74
60/70	76
70/80	76
80/90	78
90/100	79
100/110	79
110/120	80
120/130	82
130/140	83
140/150	84
150/160	85

Thermal Properties	
T <sub>g</sub> ( $^{\circ}C$ )	587
T <sub>s</sub> ( $^{\circ}C$ )	646
T <sub>10</sub> <sup>14.5</sup> ( $^{\circ}C$ )	530
T <sub>10</sub> <sup>13</sup> ( $^{\circ}C$ )	565
$\alpha_{-50/80^{\circ}C}$ ( $10^{-7}/K$ )	68
$\alpha_{100/300^{\circ}C}$ ( $10^{-7}/K$ )	88
$\lambda$ (W/(m K))	1.08

Constants of Dispersion Formula	
A <sub>0</sub>	2.42201339E+00
A <sub>1</sub>	-9.34171338E-03
A <sub>2</sub>	1.36739157E-02
A <sub>3</sub>	3.76328562E-04
A <sub>4</sub>	-1.74732935E-05
A <sub>5</sub>	1.22001270E-06

Mechanical Properties	
HK ( $10^7 Pa$ )	553
F <sub>A</sub>	123
E (GPa)	80.1
G (GPa)	33.1
$\mu$	0.210
$\sigma_b$ (MPa)	78
B ( $10^{-12}/Pa$ )	2.52

Density	Solarization
$\rho$ (g/cm <sup>3</sup> )	$\Delta\lambda$ (%)
2.85	-0.5

Range of Temperature ( $^{\circ}C$ )	Temperature Coefficients of Refractive Index									
	dn/dt relative ( $\times 10^{-6} / ^{\circ}C$ )									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	3.0	3.2	3.3	3.4	3.4	3.5	3.8	4.2	4.2	4.4
-40 ~ -20	3.1	3.3	3.4	3.4	3.5	3.7	3.9	4.2	4.3	4.5
-20 ~ 0	3.1	3.3	3.4	3.5	3.5	3.6	3.8	4.2	4.2	4.5
0 ~ 20	3.0	3.4	3.4	3.5	3.5	3.6	3.8	4.2	4.3	4.5
20 ~ 40	3.0	3.3	3.4	3.5	3.6	3.6	3.8	4.2	4.2	4.6
40 ~ 60	3.0	3.3	3.5	3.6	3.6	3.6	3.8	4.3	4.3	4.7
60 ~ 80	3.1	3.4	3.5	3.6	3.7	3.7	3.9	4.4	4.4	4.9
80 ~ 100	3.2	3.3	3.6	3.6	3.7	3.9	4.1	4.5	4.5	5.0
100 ~ 120	3.2	3.4	3.6	3.7	3.7	3.8	4.0	4.4	4.5	5.1
120 ~ 140	3.2	3.4	3.6	3.7	3.7	3.8	4.0	4.4	4.5	5.0
140 ~ 160	3.2	3.5	3.6	3.7	3.7	3.9	4.1	4.4	4.6	5.2

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	355/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	347/321

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
3.18E-06	1.21E-08	-2.72E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
4.09E-07	3.53E-10	2.69E-01