

<b>H-BaK2</b> <b>540597</b>	$n_d = 1.53996$	$\nu_d = 59.72$	$n_F - n_C = 0.009041$
	$n_e = 1.54212$	$\nu_e = 59.45$	$n_{F'} - n_{C'} = 0.009119$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.51376
$n_{1970}$	1970.09	1.51856
$n_{1530}$	1529.58	1.52378
$n_{1129}$	1128.64	1.52833
$n_t$	1013.98	1.52981
$n_s$	852.11	1.53235
$n_{A'}$	768.19	1.53407
$n_r$	706.52	1.53565
$n_C$	656.27	1.53721
$n_{C'}$	643.85	1.53765
$n_{\text{He-Ne}}$	632.80	1.53806
$n_D$	589.29	1.53988
$n_d$	587.56	1.53996
$n_e$	546.07	1.54212
$n_F$	486.13	1.54625
$n_{F'}$	479.99	1.54677
$n_g$	435.84	1.55117
$n_h$	404.66	1.55525
$n_i$	365.01	1.56225

Constants of Dispersion Formula	
$A_0$	2.33787692E+00
$A_1$	-8.98050049E-03
$A_2$	1.15593975E-02
$A_3$	4.92789833E-04
$A_4$	-4.58314132E-05
$A_5$	2.77373664E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3042	$P'_{d,C'}$	0.2533
$P_{e,d}$	0.2389	$P'_{e,d}$	0.2368
$P_{g,F}$	0.5442	$P'_{g,F'}$	0.4825

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative (10 <sup>-6</sup> / °C)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	0.6	0.9	1.0	1.1	1.2	1.5	2.2
-20 ~ 0	0.9	1.1	1.3	1.4	1.5	1.6	2.0
0 ~ 20	0.9	1.4	1.5	1.6	1.8	2.1	2.6
20 ~ 40	1.5	1.6	1.7	1.8	2.0	2.5	2.6
40 ~ 60	1.5	1.7	1.9	2.0	2.1	2.4	2.5
60 ~ 80	1.6	1.8	2.0	2.1	2.3	2.5	2.9

Chemical Properties (grade)	
RC(S)	1
RA(S)	2
D <sub>w</sub>	1
D <sub>A</sub>	1
R <sub>OH</sub> (S)	2
RP(S)	1

Thermal Properties	
T <sub>g</sub> (°C)	544
T <sub>s</sub> (°C)	626
T <sub>10</sub> <sup>14.5</sup> (°C)	491
T <sub>10</sub> <sup>13</sup> (°C)	534
$\alpha_{-50/80^\circ\text{C}}$ (10 <sup>-7</sup> /K)	78
$\alpha_{100/300^\circ\text{C}}$ (10 <sup>-7</sup> /K)	93

Mechanical Properties	
HK(10 <sup>7</sup> Pa)	532
F <sub>A</sub>	103
E(10 <sup>7</sup> Pa)	7010
G(10 <sup>7</sup> Pa)	2833
$\mu$	0.237
B(nm/cm/10 <sup>5</sup> Pa)	2.600

Density	
$\rho$ (g/cm <sup>3</sup> )	2.85

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0002
$\Delta P_{C,t}$	-0.0109
$\Delta P_{C,s}$	-0.0061

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.917	0.842
2200	0.937	0.880
2000	0.974	0.947
1800	0.987	0.976
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	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	0.999	0.998
440	0.999	0.998
420	0.999	0.998
400	0.999	0.998
390	0.999	0.998
380	0.997	0.996
370	0.995	0.993
360	0.993	0.990
350	0.977	0.961
340	0.957	0.929
330	0.926	0.867
320	0.847	0.729
310	0.691	0.487
300	0.437	0.198
290	0.170	0.037
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	330/290

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	