

H-BaK2	540597
---------------	---------------

$n_d = 1.53996$	$vd = 59.72$	$nF - nC = 0.009041$
$n_e = 1.54212$	$ve = 59.45$	$nF' - nC' = 0.00912$

Refractive Indices		
	λ (nm)	
n_r	706.5	1.53565
n_c	656.3	1.53721
$n_{c'}$	643.8	1.53765
n_{He-Ne}	632.8	1.53806
n_D	589.3	1.53988
n_d	587.6	1.53996
n_e	546.1	1.54212
n_F	486.1	1.54625
$n_{F'}$	480.0	1.54677
n_g	435.8	1.55118
n_h	404.7	1.55527
n_i	365.0	1.56225

Chemical Properties	
	Group
RC(S)	1
RA(S)	2
DW	1
DA	1

Internal Transmission		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.880	0.770
2200	0.931	0.867
2000	0.960	0.922
1800	0.982	0.964
1600	0.995	0.990
1400	0.998	0.996
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
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	0.998	0.996
380	0.996	0.992
370	0.996	0.992
360	0.994	0.988
350	0.988	0.977
340	0.976	0.952
330	0.947	0.896
320	0.880	0.770
310	0.730	0.540
300	0.490	0.240
290	0.200	0.040
280	0.060	

Thermal Properties	
T_g (°C)	560
T_S (°C)	627
$T_{10}^{14.5}$ (°C)	
T_{10}^{13} (°C)	
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	78
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	84

Constants of Dispersion (Cauchy)	
A_0	2.3366841
A_1	$-8.50036541 \times 10^{-3}$
A_2	$1.25446071 \times 10^{-2}$
A_3	$1.41709001 \times 10^{-4}$
A_4	$9.33907581 \times 10^{-6}$
A_5	$-3.19754651 \times 10^{-7}$

Mechanical Properties	
Hardness ($10^7 Pa$)	540
FA (Relative Abrasion)	0.77
Young's Modulus ($10^7 Pa$)	6970
Rigidity Modulus ($10^7 Pa$)	2820
Poisson's Ratio	0.236

Relative Partial Dispersions			
$P_{d,c}$	0.3042	$P'_{d,c}$	0.2533
$P_{e,d}$	0.2389	$P'_{e,d}$	0.2368
$P_{g,F}$	0.5454	$P'_{g,F}$	0.4836

Photoelastic Constant	
β ($10^{-12}/Pa$)	

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	0.0009

Color	
λ_{80}/λ_5	33/29

Specific Gravity	
ρ (g/cm^3)	2.85

NHG	HOYA	OHARA	SCHOTT
H-BaK2	BaC2	S-BaL12	N-BaK2



Naked Optics Corp.
 16 Mt. Bethel Rd. #374
 Warren, NJ 07059
 908-685-0352 (ph) . 908-325-0250 (fax)