

H-BaK7	569560
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nd =1.56883	vd =56.04	nF-nC = 0.01015
ne =1.57125	ve =55.78	nF'-nc' = 0.010242

Refractive Indices		
	λ (nm)	
n_r	706.5	1.564
n_c	656.3	1.56575
$n_{c'}$	643.8	1.56624
n_{He-Ne}	632.8	1.5667
n_D	589.3	1.56874
n_d	587.6	1.56883
n_e	546.1	1.57125
n_F	486.1	1.5759
$n_{F'}$	480.0	1.57648
n_g	435.8	1.58147
n_h	404.7	1.58611
n_i	365.0	1.59402

Constants of Dispersion (Cauchy)	
A_0	2.4196645
A_1	$-8.33293141 \times 10^{-3}$
A_2	$1.53973901 \times 10^{-2}$
A_3	$-1.73916541 \times 10^{-4}$
A_4	$6.21832201 \times 10^{-5}$
A_5	$-3.06213101 \times 10^{-6}$

Relative Partial Dispersions			
$P_{d,c}$	0.3034	$P'_{d,c'}$	0.2529
$P_{e,d}$	0.2384	$P'_{e,d}$	0.2363
$P_{g,F}$	0.5488	$P'_{g,F'}$	0.4873

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0011
$\Delta P_{g,F}$	-0.0017

NHG	HOYA	OHARA	SCHOTT
H-BaK7	BaC4	S-BaL14	N-BaK4

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

Thermal Properties	
T_g (°C)	595
T_S (°C)	649
$T_{10}^{14.5}$ (°C)	541
T_{10}^{13} (°C)	580
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	71.88
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	79.76

Mechanical Properties	
Hardness ($10^7 Pa$)	578
FA (Relative Abrasion)	1.05
Young's Modulus ($10^7 Pa$)	8241
Rigidity Modulus ($10^7 Pa$)	3315
Poisson's Ratio	0.243

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

Color	
λ_{80}/λ_5	36/33

Specific Gravity	
ρ (g/cm^3)	2.83

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.93	0.864
2200	0.953	0.908
2000	0.983	0.967
1800	0.991	0.983
1600	0.997	0.995
1400	0.998	0.996
1200	0.998	0.997
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.998	0.997
850	0.998	0.997
800	0.998	0.996
700	0.998	0.996
650	0.997	0.995
600	0.997	0.994
550	0.997	0.994
500	0.996	0.993
480	0.996	0.992
460	0.995	0.99
440	0.994	0.988
420	0.993	0.986
400	0.989	0.978
390	0.982	0.965
380	0.97	0.94
370	0.95	0.9
360	0.9	0.8
350	0.78	0.6
340	0.54	0.29
330	0.19	0.04
320		
310		
300		
290		
280		



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