

H-ZBaF16	667484
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nd =1.66672	vd =48.42	nF - nC =0.013769
ne =1.67000	ve =48.13	nF' - nc' =0.013920

Refractive Indices		
	λ (nm)	
n_f	706.5	1.66029
n_c	656.3	1.6626
$n_{c'}$	643.8	1.66325
n_{He-Ne}	632.8	1.66386
n_D	589.3	1.6666
n_d	587.6	1.66672
n_e	546.1	1.67
n_F	486.1	1.67637
$n_{F'}$	480.0	1.67717
n_g	435.8	1.68441
n_h	404.7	1.69066
n_i	365.0	1.70217

Chemical Properties	
	Group
RC(S)	1
RA(S)	3
DW	1
DA	3

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.943	0.89
2200	0.971	0.943
2000	0.986	0.973
1800	0.992	0.985
1600	0.998	0.996
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
700	0.998	0.996
650	0.997	0.995
600	0.997	0.995
550	0.997	0.995
500	0.996	0.992
480	0.994	0.989
460	0.992	0.985
440	0.991	0.982
420	0.989	0.978
400	0.98	0.96
390	0.969	0.938
380	0.948	0.898
370	0.904	0.817
360	0.81	0.65
350	0.62	0.39
340	0.32	0.1
330		
320		
310		
300		
290		
280		

Thermal Properties	
Tg (°C)	589
Ts (°C)	644
T ₁₀ ^{14.5} (°C)	536
T ₁₀ ¹³ (°C)	576
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	72
$\alpha_{20/300^\circ C}$ (10 ⁻⁷ /K)	88

Constants of Dispersion (Cauchy)	
A ₀	2.7163772
A ₁	-8.0525101×10 ⁻³
A ₂	2.2097548×10 ⁻²
A ₃	-1.6317877×10 ⁻⁴
A ₄	7.8027761×10 ⁻⁵
A ₅	-2.3918790×10 ⁻⁶

Mechanical Properties	
Hardness (10 ⁷ Pa)	577
FA (Relative Abrasion)	
Young's Modulus (10 ⁷ Pa)	7648
Rigidity Modulus (10 ⁷ Pa)	3000
Poisson's Ratio	0.275

Relative Partial Dispersions			
P _{d,c}	0.2992	P' _{d,c'}	0.2493
P _{e,d}	0.2382	P' _{e,d'}	0.2356
P _{g,F}	0.5621	P' _{g,F'}	0.4986

Photoelastic Constant	
β (10 ⁻¹² /Pa)	

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0009
$\Delta P_{g,F}$	-0.0011

Color	
λ_{80}/λ_5	37/33

Specific Gravity	
ρ (g/cm ³)	3.59

NHG	HOYA	OHARA	SCHOTT
H - ZBaF16	BAF11	S - BAH11	BAFN11



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