

H-ZBaF52	670472
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nd =1.67003	vd =47.20	nF - nC =0.014197
ne =1.67340	ve =46.90	nF' - nc' =0.014358

Refractive Indices		
	λ (nm)	
n_r	706.5	1.66342
n_c	656.3	1.66579
$n_{c'}$	643.8	1.6646
n_{He-Ne}	632.8	1.66709
n_D	589.3	1.6699
n_d	587.6	1.67003
n_e	546.1	1.6734
n_F	486.1	1.67999
$n_{F'}$	480.0	1.68082
n_g	435.8	1.68799
n_h	404.7	1.6948
n_i	365.0	1.7068

Constants of Dispersion (Cauchy)	
A_0	2.7324621
A_1	$-1.2490460 \times 10^{-2}$
A_2	1.8562334×10^{-2}
A_3	9.9990536×10^{-4}
A_4	$-6.8388552 \times 10^{-5}$
A_5	4.9257931×10^{-6}

Relative Partial Dispersions			
$P_{d,c}$	0.2986	$P'_{d,c'}$	0.2486
$P_{e,d}$	0.2373	$P'_{e,d}$	0.2347
$P_{g,F}$	0.5634	$P'_{g,F'}$	0.4993

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0018

NHG	HOYA	OHARA	SCHOTT
H - ZBaF52	BAF10	S - BAH10	N - BAF10

Chemical Properties	
	Group
RC(S)	1
RA(S)	3
DW	1
DA	2

Thermal Properties	
Tg (°C)	583
T _S (°C)	652
T ₁₀ ^{14.5} (°C)	539
T ₁₀ ¹³ (°C)	580
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	73
$\alpha_{20/300^\circ C}$ (10 ⁻⁷ /K)	88

Mechanical Properties	
Hardness (10 ⁷ Pa)	626
FA (Relative Abrasion)	
Young's Modulus (10 ⁷ Pa)	9448
Rigidity Modulus (10 ⁷ Pa)	3704
Poisson's Ratio	0.275

Photoelastic Constant	
β (10 ⁻¹² /Pa)	

Color	
λ_{80}/λ_5	38/34

Specific Gravity	
ρ (g/cm ³)	3.57

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.941	0.886
2200	0.971	0.942
2000	0.986	0.972
1800	0.991	0.982
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	0.998	0.997
850	0.998	0.996
800	0.995	0.991
700	0.995	0.99
650	0.995	0.99
600	0.994	0.989
550	0.994	0.989
500	0.992	0.985
480	0.991	0.983
460	0.99	0.98
440	0.988	0.976
420	0.985	0.971
400	0.976	0.953
390	0.964	0.93
380	0.941	0.886
370	0.89	0.8
360	0.79	0.63
350	0.58	0.34
340	0.23	0.06
330		
320		
310		
300		
290		
280		



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