

H-BaK4	552634
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nd =1.55248	vd =63.36	nF - nC =0.00872
ne =1.55456	ve =63.1	nF' - nc' =0.008788

Refractive Indices		
	λ (nm)	
n _r	706.5	1.54827
n _c	656.3	1.54981
n _{c'}	643.8	1.55023
n _{He-Ne}	632.8	1.55063
n _D	589.3	1.5524
n _d	587.6	1.55248
n _e	546.1	1.55456
n _F	486.1	1.55853
n _{F'}	480.0	1.55902
n _g	435.8	1.56321
n _h	404.7	1.56707
n _i	365.0	1.57364

Constants of Dispersion (Cauchy)	
A ₀	2.3778046
A ₁	-1.03212301×10 ⁻²
A ₂	1.16996571×10 ⁻²
A ₃	2.93353081×10 ⁻⁴
A ₄	-2.05614051×10 ⁻⁵
A ₅	1.35826601×10 ⁻⁶

Relative Partial Dispersions			
P _{d,c}	0.3062	P' _{d,c'}	0.256
P _{e,d}	0.2385	P' _{e,d}	0.2366
P _{g,F}	0.5367	P' _{g,F'}	0.4767

Deviation of Relative Partial Dispersions	
ΔP _{F,e}	0.0000
ΔP _{g,F}	-0.0017

NHG	HOYA	OHARA	SCHOTT
H-BaK4	PCD3		

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

Thermal Properties	
T _g (°C)	611
T _s (°C)	667
T ₁₀ ^{14.5} (°C)	546
T ₁₀ ¹³ (°C)	588
α _{20/120°C} (10 ⁻⁷ /K)	64
α _{20/300°C} (10 ⁻⁷ /K)	72

Mechanical Properties	
Hardness (10 ⁷ Pa)	550
FA (Relative Abrasion)	
Young's Modulus (10 ⁷ Pa)	8277
Rigidity Modulus (10 ⁷ Pa)	3370
Poisson's Ratio	0.228

Photoelastic Constant	
β (10 ⁻¹² /Pa)	

Color	
λ ₈₀ /λ ₅	34/29

Specific Gravity	
ρ (g/cm ³)	2.9

Internal Transmission		
λ (nm)	τ5mm	τ10mm
2400	0.900	0.810
2200	0.935	0.874
2000	0.981	0.963
1800	0.991	0.982
1600	0.997	0.994
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	0.997
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.997	0.995
480	0.997	0.994
460	0.996	0.993
440	0.996	0.992
420	0.996	0.992
400	0.995	0.991
390	0.993	0.987
380	0.991	0.982
370	0.988	0.976
360	0.980	0.960
350	0.964	0.930
340	0.931	0.867
330	0.870	0.760
320	0.780	0.610
310	0.640	0.410
300	0.440	0.190
290	0.220	0.050
280	0.07	



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