

H-ZLaF56 806333

nd =1.80610	vd =33.27	nF – nC =0.024230
ne =1.81184	ve =33.03	nF' - nc' =0.024579

Refractive Indices		
	λ (nm)	
n _r	706.5	1.79512
n _c	656.3	1.79902
n _{c'}	643.8	1.80012
n _{He-Ne}	632.8	1.80117
n _D	589.3	1.80589
n _d	587.6	1.80610
n _e	546.1	1.81184
n _F	486.1	1.82325
n _{F'}	480.0	1.82470
n _g	435.8	1.83750
n _h	404.7	1.84998
n _i	365.0	1.87290

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

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.921	0.849
2200	0.969	0.939
2000	0.987	0.975
1800	0.994	0.989
1600	0.997	0.995
1400	0.998	0.997
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	0.997
800	0.996	0.992
700	0.995	0.991
650	0.994	0.989
600	0.993	0.987
550	0.992	0.984
500	0.985	0.971
480	0.981	0.962
460	0.975	0.951
440	0.968	0.937
420	0.955	0.912
400	0.923	0.852
390	0.89	0.79
380	0.82	0.68
370	0.69	0.48
360	0.41	0.17
350	0.08	0.01
340		
330		
320		
310		
300		
290		
280		

Thermal Properties	
T _g (°C)	665
T _s (°C)	715
T ₁₀ ^{14.5} (°C)	
T ₁₀ ¹³ (°C)	
α _{20/120°C} (10 ⁻⁷ /K)	75
α _{20/300°C} (10 ⁻⁷ /K)	88

Constants of Dispersion (Cauchy)	
A ₀	3.1540011
A ₁	-1.3256753×10 ⁻²
A ₂	3.4103312×10 ⁻²
A ₃	1.8472167×10 ⁻³
A ₄	-1.0807332×10 ⁻⁴
A ₅	1.2975901×10 ⁻⁵

Mechanical Properties	
Hardness (10 ⁷ Pa)	564
FA (Relative Abrasion)	
Young's Modulus (10 ⁷ Pa)	11319
Rigidity Modulus (10 ⁷ Pa)	4418
Poisson's Ratio	0.281

Relative Partial Dispersions			
P _{d,c}	0.2922	P' _{d,c'}	0.2433
P _{e,d}	0.2369	P' _{e,d}	0.2335
P _{g,F}	0.5881	P' _{g,F'}	0.5207

Photoelastic Constant	
β (10 ⁻¹² /Pa)	

Deviation of Relative Partial Dispersions	
ΔP _{F,e}	-0.0009
ΔP _{g,F}	-0.0002

Color	
λ ₈₀ /λ ₅	43/35

Specific Gravity	
ρ (g/cm ³)	3.47

NHG	HOYA	OHARA	SCHOTT
H-ZLaF56	Nbfd15	BSM2	SK2



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