

H-F4	620364
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nd =1.62005	vd =36.35	nF - nC =0.017060
ne =1.62408	ve =36.09	nF' - nc' =0.017291

Refractive Indices		
	λ (nm)	
n_r	706.5	1.61228
n_c	656.3	1.61504
$n_{c'}$	643.8	1.61582
n_{He-Ne}	632.8	1.61656
n_D	589.3	1.61990
n_d	587.6	1.62005
n_e	546.1	1.62408
n_F	486.1	1.63210
$n_{F'}$	480.0	1.63312
n_g	435.8	1.64205
n_h	404.7	1.65068
n_i	365.0	1.66634

Constants of Dispersion (Cauchy)	
A_0	2.5571053
A_1	$-9.8775595 \times 10^{-3}$
A_2	2.1541945×10^{-2}
A_3	1.0997608×10^{-3}
A_4	$-4.8568692 \times 10^{-5}$
A_5	5.6015590×10^{-6}

Relative Partial Dispersions			
$P_{d,c}$	0.2937	$P'_{d,c'}$	0.2445
$P_{e,d}$	0.2362	$P'_{e,d'}$	0.2329
$P_{g,F}$	0.5832	$P'_{g,F'}$	0.5162

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	0.0000

NHG	HOYA	OHARA	SCHOTT
H-F4	E-F2	S-TIM2	N-F2

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

Thermal Properties	
Tg (°C)	581
T _S (°C)	632
T ₁₀ ^{14.5} (°C)	528
T ₁₀ ¹³ (°C)	562
$\alpha_{20/120^\circ\text{C}}$ (10 ⁻⁷ /K)	76.8
$\alpha_{20/300^\circ\text{C}}$ (10 ⁻⁷ /K)	85.96

Mechanical Properties	
Hardness (10 ⁷ Pa)	607
FA (Relative Abrasion)	0.71
Young's Modulus (10 ⁷ Pa)	8344
Rigidity Modulus (10 ⁷ Pa)	3393
Poisson's Ratio	0.229

Photoelastic Constant	
β (10 ⁻¹² /Pa)	

Color	
λ_{80}/λ_5	39/36

Specific Gravity	
ρ (g/cm ³)	2.65

Internal Transmittance		
λ (nm)	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.924	0.853
2200	0.940	0.884
2000	0.980	0.961
1800	0.989	0.979
1600	0.998	0.997
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	0.999	0.998
650	0.998	0.997
600	0.998	0.997
550	0.998	0.997
500	0.997	0.994
480	0.996	0.992
460	0.994	0.988
440	0.991	0.983
420	0.985	0.97
400	0.96	0.921
390	0.922	0.85
380	0.83	0.69
370	0.62	0.39
360	0.24	0.06
350		
340		
330		
320		
310		
300		
290		
280		



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