

H-ZF2	673322
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nd =1.6727	vd =32.17	nF - nC =0.02091
ne =1.67764	ve =31.92	nF' - nc' =0.021227

Refractive Indices		
	λ (nm)	
n_r	706.5	1.66327
n_c	656.3	1.66661
$n_{c'}$	643.8	1.66756
n_{He-Ne}	632.8	1.66846
n_D	589.3	1.67252
n_d	587.6	1.6727
n_e	546.1	1.67764
n_F	486.1	1.68751
$n_{F'}$	480.0	1.68879
n_g	435.8	1.69999
n_h	404.7	1.71105
n_i	365.0	1.73182

Constants of Dispersion (Cauchy)	
A_0	2.7135839
A_1	$-1.14197191 \times 10^{-2}$
A_2	$2.61337081 \times 10^{-2}$
A_3	$1.75764791 \times 10^{-3}$
A_4	$-1.33077371 \times 10^{-4}$
A_5	$1.52033511 \times 10^{-5}$

Relative Partial Dispersions			
$P_{d,c}$	0.2914	$P'_{d,c'}$	0.2421
$P_{e,d}$	0.2364	$P'_{e,d}$	0.2327
$P_{g,F}$	0.5968	$P'_{g,F'}$	0.5276

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	0.007

NHG	HOYA	OHARA	SCHOTT
H-ZF2	E-FD5	S-TIM25	N-SF5

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

Thermal Properties	
T_g (°C)	580
T_s (°C)	628
$T_{10}^{14.5}$ (°C)	526
T_{10}^{13} (°C)	563
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	86.49
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	98.96

Mechanical Properties	
Hardness ($10^7 Pa$)	552
FA (Relative Abrasion)	0.54
Young's Modulus ($10^7 Pa$)	8321
Rigidity Modulus ($10^7 Pa$)	3352
Poisson's Ratio	0.241

Photoelastic Constant	
β ($10^{-12}/Pa$)	

Color	
λ_{80}/λ_5	40/36

Specific Gravity	
ρ (g/cm^3)	2.9

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.941	0.886
2200	0.959	0.919
2000	0.981	0.962
1800	0.99	0.981
1600	0.997	0.994
1400	0.997	0.995
1200	0.998	0.997
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	0.994	0.988
700	0.993	0.987
650	0.993	0.986
600	0.993	0.986
550	0.992	0.985
500	0.99	0.98
480	0.988	0.976
460	0.985	0.971
440	0.982	0.965
420	0.976	0.953
400	0.951	0.904
390	0.91	0.83
380	0.81	0.66
370	0.57	0.33
360	0.16	0.03
350		
340		
330		
320		
310		
300		
290		
280		



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