

H-ZF6	755275
--------------	---------------

nd =1.75520	vd =27.53	nF - nC =0.027432
ne =1.76167	ve =27.31	nF' - nc' =0.027888

Refractive Indices		
	λ (nm)	
n_r	706.5	1.74299
n_c	656.3	1.74729
$n_{c'}$	643.8	1.74852
n_{He-Ne}	632.8	1.74968
n_D	589.3	1.75496
n_d	587.6	1.75520
n_e	546.1	1.76167
n_F	486.1	1.77472
$n_{F'}$	480.0	1.77641
n_g	435.8	1.79143
n_h	404.7	1.80649
n_i	365.0	1.8354

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.95	0.902
2200	0.967	0.935
2000	0.984	0.968
1800	0.991	0.983
1600	0.999	0.998
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	0.997	0.995
700	0.995	0.99
650	0.994	0.988
600	0.994	0.988
550	0.993	0.987
500	0.988	0.976
480	0.984	0.969
460	0.979	0.959
440	0.972	0.945
420	0.956	0.913
400	0.9	0.81
390	0.82	0.68
380	0.66	0.43
370	0.33	0.11
360	0.04	
350		
340		
330		
320		
310		
300		
290		
280		

Thermal Properties	
T_g (°C)	596
T_s (°C)	629
$T_{10}^{14.5}$ (°C)	560
T_{10}^{13} (°C)	595
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	90.74
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	100.37

Constants of Dispersion (Cauchy)	
A_0	2.9673172
A_1	$-1.3989564 \times 10^{-2}$
A_2	3.3456680×10^{-2}
A_3	3.0717804×10^{-3}
A_4	$-2.6682434 \times 10^{-4}$
A_5	2.8950241×10^{-5}

Mechanical Properties	
Hardness ($10^7 Pa$)	523
FA (Relative Abrasion)	
Young's Modulus ($10^7 Pa$)	9087
Rigidity Modulus ($10^7 Pa$)	3633
Poisson's Ratio	0.251

Relative Partial Dispersions			
$P_{d,c}$	0.2884	$P'_{d,c'}$	0.2395
$P_{e,d}$	0.2359	$P'_{e,d}$	0.232
$P_{g,F}$	0.6092	$P'_{g,F'}$	0.5385

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

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0008
$\Delta P_{g,F}$	0.0113

Color	
λ_{80}/λ_5	43/37

Specific Gravity	
ρ (g/cm^3)	3.14

NHG	HOYA	OHARA	SCHOTT
H-ZF6	E-FD4	S-TIH4	N-SF4



Naked Optics Corp.
 16 Mt. Bethel Rd. #374
 Warren, NJ 07059
 908-685-0352 (ph) . 908-325-0250 (fax)