

ZF6 755275

nd =1.75520	vd =27.53	nF - nC =0.027432
ne =1.76168	ve =27.32	nF' - nc' =0.027881

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	1.7552
n_e	546.1	1.76168
n_F	486.1	1.77472
$n_{F'}$	480.0	1.7764
n_g	435.8	1.79126
n_h	404.7	1.80598
n_i	365.0	1.83375

Chemical Properties

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

Internal Transmission

λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.93	0.865
2200	0.955	0.912
2000	0.978	0.956
1800	0.985	0.97
1600	0.992	0.984
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	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.998	0.996
480	0.997	0.994
460	0.996	0.993
440	0.992	0.984
420	0.983	0.966
400	0.96	0.92
390	0.93	0.87
380	0.88	0.78
370	0.78	0.61
360	0.53	0.29
350	0.17	0.03
340		
330		
320		
310		
300		
290		
280		

Thermal Properties

Tg (°C)	432
Ts (°C)	477
T ₁₀ ^{14.5} (°C)	414
T ₁₀ ¹³ (°C)	435
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	82.89
$\alpha_{20/300^\circ C}$ (10 ⁻⁷ /K)	89.6

Constants of Dispersion (Cauchy)

A ₀	2.9684662
A ₁	-1.3339731×10 ⁻²
A ₂	3.1754355×10 ⁻²
A ₃	3.7037179×10 ⁻³
A ₄	-3.3919378×10 ⁻⁴
A ₅	2.9109763×10 ⁻⁵

Mechanical Properties

Hardness (10 ⁷ Pa)	380
FA (Relative Abrasion)	
Young's Modulus (10 ⁷ Pa)	5472
Rigidity Modulus (10 ⁷ Pa)	2250
Poisson's Ratio	0.216

Relative Partial Dispersions

P _{d,c}	0.2884	P' _{d,c'}	0.2396
P _{e,d}	0.2362	P' _{e,d}	0.2324
P _{g,F}	0.603	P' _{g,F'}	0.533

Photoelastic Constant

β (10 ⁻¹² /Pa)	
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Deviation of Relative Partial Dispersions

$\Delta P_{F,e}$	0.0004
$\Delta P_{g,F}$	0.0051

Color

λ_{80}/λ_5	41/35
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Specific Gravity

ρ (g/cm ³)	4.78
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NHG	HOYA	OHARA	SCHOTT
ZF6	FD4	PBH4	SF4



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