

ZF2	673322
------------	---------------

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	1.66372
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	1.67765
n_F	486.1	1.68752
$n_{F'}$	480.0	1.68878
n_g	435.8	1.69989
n_h	404.7	1.71074
n_i	365.0	1.73064

Constants of Dispersion (Cauchy)	
A_0	2.7098957
A_1	$-8.69279661 \times 10^{-3}$
A_2	$2.81270991 \times 10^{-2}$
A_3	$1.17333051 \times 10^{-3}$
A_4	$-3.26411211 \times 10^{-5}$
A_5	$7.23643911 \times 10^{-6}$

Relative Partial Dispersions			
$P_{d,c}$	0.2912	$P'_{d,c'}$	0.2422
$P_{e,d}$	0.2367	$P'_{e,d}$	0.2333
$P_{g,F}$	0.5916	$P'_{g,F'}$	0.5236

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	0.0014

NHG	HOYA	OHARA	SCHOTT
ZF2	FD5	PBM25	SF5

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

Thermal Properties	
T_g (°C)	434
T_s (°C)	499
$T_{10}^{14.5}$ (°C)	414
T_{10}^{13} (°C)	434
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	75.82
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	85.43

Mechanical Properties	
Hardness ($10^7 Pa$)	400
FA (Relative Abrasion)	0.56
Young's Modulus ($10^7 Pa$)	5548
Rigidity Modulus ($10^7 Pa$)	2256
Poisson's Ratio	0.229

Photoelastic Constant	
β ($10^{-12}/Pa$)	2.34

Color	
λ_{80}/λ_5	35/30

Specific Gravity	
ρ (g/cm^3)	4.08

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.963	0.928
2200	0.97	0.941
2000	0.979	0.958
1800	0.99	0.98
1600	0.996	0.992
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	0.999
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.997
500	0.999	0.996
480	0.998	0.996
460	0.997	0.994
440	0.997	0.994
420	0.994	0.989
400	0.989	0.977
390	0.983	0.967
380	0.979	0.958
370	0.948	0.899
360	0.89	0.79
350	0.73	0.53
340	0.38	0.14
330	0.06	
320		
310		
300		
290		
280		



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