

F4	620364
-----------	---------------

nd =1.62005	vd =36.35	nF – nC =0.01706
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	1.6199
n_d	587.6	1.62005
n_e	546.1	1.62408
n_F	486.1	1.6321
$n_{F'}$	480.0	1.63312
n_g	435.8	1.64205
n_h	404.7	1.65069
n_i	365.0	1.66634

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

Internal Transmission		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.890	0.790
2200	0.918	0.842
2000	0.958	0.917
1800	0.980	0.961
1600	0.996	0.992
1400	0.997	0.995
1200	0.999	0.998
1060	0.999	0.999
1000	0.999	0.999
950	0.999	0.999
900	0.999	0.998
850	0.999	0.998
800	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.997	0.994
550	0.997	0.994
500	0.996	0.993
480	0.996	0.992
460	0.995	0.991
440	0.994	0.989
420	0.994	0.988
400	0.992	0.985
390	0.990	0.980
380	0.985	0.970
370	0.979	0.959
360	0.965	0.931
350	0.931	0.867
340	0.840	0.710
330	0.600	0.360
320	0.160	0.030
310		
300		
290		
280		

Thermal Properties	
Tg (°C)	439
Ts (°C)	499
T ₁₀ ^{14.5} (°C)	364
T ₁₀ ¹³ (°C)	402
$\alpha_{20/120^\circ C}$ (10 ⁻⁷ /K)	80.98
$\alpha_{20/300^\circ C}$ (10 ⁻⁷ /K)	89.45

Constants of Dispersion (Cauchy)	
A ₀	2.5571053
A ₁	-9.8775595×10-3
A ₂	2.1541945×10-2
A ₃	1.0997608×10-3
A ₄	-4.8568692×10-5
A ₅	5.6015590×10-6

Mechanical Properties	
Hardness (10 ⁷ Pa)	381
FA (Relative Abrasion)	0.68
Young's Modulus (10 ⁷ Pa)	5854
Rigidity Modulus (10 ⁷ Pa)	2375
Poisson's Ratio	0.232

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

Photoelastic Constant	
β (10 ⁻¹² /Pa)	

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0
$\Delta P_{g,F}$	0

Color	
λ_{80}/λ_5	35/32

Specific Gravity	
ρ (g/cm ³)	3.6

NHG	HOYA	OHARA	SCHOTT
F4	F2	PBM2	F2



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