

F2	613370
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nd =1.61293	vd =36.96	nF - nC =0.016582
ne =1.61686	ve =36.70	nF' - nc' =0.016806

Refractive Indices		
	λ (nm)	
n_r	706.5	1.60535
n_c	656.3	1.60805
$n_{c'}$	643.8	1.60882
n_{He-Ne}	632.8	1.60953
n_D	589.3	1.61278
n_d	587.6	1.61293
n_e	546.1	1.61686
n_F	486.1	1.62463
$n_{F'}$	480.0	1.62562
n_g	435.8	1.63428
n_h	404.7	1.64264
n_i	365.0	1.65775

Constants of Dispersion (Cauchy)	
A_0	2.5328468
A_1	$-7.9699440 \times 10^{-3}$
A_2	2.3043405×10^{-2}
A_3	4.7050956×10^{-4}
A_4	2.5000479×10^{-5}
A_5	1.9898842×10^{-6}

Relative Partial Dispersions			
$P_{d,c}$	0.2943	$P'_{d,c'}$	0.2446
$P_{e,d}$	0.237	$P'_{e,d'}$	0.2339
$P_{g,F}$	0.582	$P'_{g,F'}$	0.5155

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	-0.0002

NHG	HOYA	OHARA	SCHOTT
F2	F3	PBM3	F3

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

Thermal Properties	
T_g (°C)	448
T_s (°C)	480
$T_{10}^{14.5}$ (°C)	410
T_{10}^{13} (°C)	435
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	73
$\alpha_{20/300^\circ C}$ ($10^{-7}/K$)	85

Mechanical Properties	
Hardness ($10^7 Pa$)	440
FA (Relative Abrasion)	0.59
Young's Modulus ($10^7 Pa$)	5740
Rigidity Modulus ($10^7 Pa$)	2350
Poisson's Ratio	0.221

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

Color	
λ_{80}/λ_5	35/32

Specific Gravity	
ρ (g/cm^3)	3.54

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.915	0.837
2200	0.94	0.884
2000	0.97	0.941
1800	0.982	0.964
1600	0.994	0.988
1400	0.998	0.997
1200	0.999	0.998
1060	0.999	0.999
1000	0.999	0.999
950	0.999	0.999
900	0.999	0.999
850	0.999	0.999
800	0.999	0.999
700	0.999	0.999
650	0.999	0.999
600	0.999	0.999
550	0.999	0.999
500	0.999	0.999
480	0.999	0.999
460	0.999	0.998
440	0.999	0.998
420	0.999	0.998
400	0.997	0.995
390	0.996	0.991
380	0.993	0.985
370	0.989	0.977
360	0.978	0.956
350	0.95	0.9
340	0.87	0.76
330	0.63	0.39
320	0.18	0.03
310	0.06	
300		
290		
280		



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