

## Typical Properties of Acetal Homopolymer

	ASTM Test Method	Value
<b>Mechanical Properties</b>		
Specific Gravity	D792	1.42 gm/cm <sup>3</sup>
Tensile strength 73°F	D638	10,000 psi
Tensile Modulus 73°F	D638	450,000 psi
Elongation, Break	D638	40%
Flexural Strength	D790	14,100 psi
Flexural Modulus	D790	450,000 psi
Compressive Strength	D695	16,000 psi
Compressive Modulus	D695	450,000 psi
Impact Strength, Notched	D256	1.5 ft-lbs/in
Hardness, Rockwell	D785	R122 (M94)
Hardness, Durometer	2240	D86
Shear Strength	D732	9,000 psi
Coefficient of Friction, agaist steel	-	0.15
<b>Thermal Properties</b>		
Deflection Temperature 66 psi	D648	340°F
Deflection Temperature 264 psi	D648	277°F
Maximum Temperature - Long Term		180°F
Melting Point	---	347°F
Coefficient of Linear Thermal Expansion	D696	4.7 x 10 <sup>-5</sup> in/in/°F
Thermal Conductivity	C177	2.5 Btu-in/hr-ft <sup>2</sup> -°F
<b>Electrical Properties</b>		
Dielectric Strength	D149	3000 V/mil
Dielectric Constant 1 kHz	D150	3.7
Dissipation Factor 1 kHz	D150	0.005
Flammability	UL 94	HB
Volume Resistivity 73°F	D257	10 <sup>15</sup> Ω.cm
<b>Water Absorption Rates</b>		
Water Absorption at 73°F 24 hours	D570	0.25%
Water Absorption at 73°F Saturation	D570	0.9%
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