

Typical Properties of Acetal Copolymer

	ASTM Test Method	Value
Mechanical Properties		
Specific Gravity	D792	1.41 gm/cm ³
Tensile strength 73°F	D638	8,800 psi
Tensile Modulus 73°F	D638	400,000 psi
Elongation, Break	D638	55%
Flexural Strength	D790	13,000 psi
Flexural Modulus	D790	400,000 psi
Compressive Strength	D695	15,000 psi
Compressive Modulus	D695	400,000 psi
Impact Strength, Notched	D256	1.3 ft-lbs/in
Hardness, Rockwell	D785	R120 (M80)
Hardness, Durometer	2240	D85
Shear Strength	D732	8,000 psi
Coefficient of Friction, agaist steel	-	0.15
Thermal Properties		
Deflection Temperature 66 psi	D648	316°F
Deflection Temperature 264 psi	D648	205°F
Maximum Temperature - Long Term		180°F
Melting Point	---	355°F
Coefficient of Linear Thermal Expansion	D696	5.4 x 10 ⁻⁵ in/in/°F
Thermal Conductivity	C177	1.6 Btu-in/hr-ft ² -°F
Electrical Properties		
Dielectric Strength	D149	2100 V/mil
Dielectric Constant 1 kHz	D150	3.7
Dissipation Factor 1 kHz	D150	-
Flammability	UL 94	HB
Volume Resistivity 73°F	D257	10 ¹⁵ Ω.cm
Water Absorption Rates		
Water Absorption at 73°F 24 hours	D570	0.22%
Water Absorption at 73°F Saturation	D570	0.9%
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