



Acetal is a highly dependable, versatile material that provides designers and fabricators with optimum performance characteristics. It is a tough, stable thermoplastic offering a unique combination of properties. Key properties include a high modulus of elasticity, high strength, rigidity and dimensional stability. The material also exhibits a high natural lubricity, a wide useful temperature range and good electrical ability. Acetal has excellent resistance to moisture, gasoline, solvents and many other neutral chemicals. Acetal shapes include low coefficient of friction, good bearing properties and a high resistance to repeated impacts.

TAP Plastics carries Acetal in sheets and rods.

Physical • Thermal • Electrical Properties

Property	Test Method	Value	Unit
Specific Gravity	ASTM D-792	1.41	g/cc
Tensile Strength	ASTM D-638	8,800	psi
Elongation (Break)	ASTM D-638	75	% @ 73°F
Tensile Impact	ASTM D-1822	90	Ft lbs/sq in
Compressive Strength	ASTM D-695	16,000	psi (at yield)
Flexural Strength	ASTM D-790	13,000	psi
Notched Izod Impact Strength	ASTM D-256	1.6	Ft lbs/in @ 73°F
Hardness Rockwell	ASTM D-785	M78	R-M
Thermal Expansion	ASTM D-696	4.7 x 10 ⁻⁵	in/in °F
Heat Deflection	ASTM D-648	316	°F @ 66 psi
		230	°F @ 264 psi
Melting Point	ASTM D-789	329	°F
Dielectric Strength (Short Time)	ASTM D-149	500	Volts/mil
Water Absorption	ASTM D-570	0.22	% (24 hrs)

Chemical Resistance @ 73°F

Weak Acids—Resistant to some • Strong Acids—Attacked
Weak Alkalies—Resistant • Strong Alkalies—Resistant
Solvents—Resistant

These typical results are based on procedures which are believed to be reliable. Due to variable conditions or methods of processing, no guarantees or warranties are expressed or implied, including the implied warranty of merchantability and fitness for particular purpose, nor any recommendations made to infringe on patents

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