



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

ACETAL

Polyoxymethylene Molding and Extrusion Materials

ACETAL (POM) is an engineering plastic often used in wet environments. It has a near-zero level of moisture absorption, excellent dimensional stability, and low friction. Ease of machinability is a key characteristic of Acetal. Therefore, it is an ideal choice for applications that require complex machining to tight tolerances. Acetal maintains performance and form during precise machining. Applications include bearings, bushings, wear pads, and pump/valve parts. Our expertise lies in CNC plastic machining (CNC turning, CNC milling, CNC cutting and sawing, and CNC multiple-axis machining) for rigid materials such as Acetal (ASTM D6778).

The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers. We offer our customers the proper product for their specific application. A variety of dimensions and diameter sizes are available. Product colors vary according to material type.

		ASTM	TYPICAL VALUES		
PROPERTIES		Test Method	Units	Homopolymer Acetal	Copolymer Acetal
PHYSICAL	Water Absorption: 24 hrs. in Water	ASTM D570	%	0.25	0.20
	Density	ASTM D792	lb/in ³	0.051	0.051
	Density	ASTM D792	g/cm ³	1.41	1.41
	Coefficient of Friction: Dynamic			0.20	0.21
THERMAL	Heat Deflection Temperature (264 PSI)	ASTM D648	°F	257	230
	Max. Continuous Service Temperature in Air	ASTM D648	°F	185	195
	Coefficient of Linear Thermal Expansion	ASTM D696	μin/in·°F	6.80	6.10
MECHANICAL	Tensile Strength	ASTM D638	PSI	10,000	9,800
	Flexural Modulus	ASTM D790	PSI	420	370,000
	IZOD Impact Strength: Notched	ASTM D256	ft-lbs/in	1.50	1

The data supplied are typical values. They are not to be considered specification values. All of the information, suggestions, and recommendations about these properties and uses of the products herein are based on tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the contemplated application, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty - expressed or implied - including, without limitation, warranties of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.