



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

ACETAL

Item:	ACETAL (polyoxymethylene)	
Description:	Ease of machinability is a key characteristic for this engineering plastic, along with good dimensional stability, making it an ideal choice for use in applications that require complex machining to tight tolerances. Acetal machining to close tolerances can be achieved with Vanderveer Industrial Plastics. Our expertise lies in CNC Plastic Machining (CNC Turning, CNC Milling, CNC Cutting and Sawing, and CNC Multiple Axis Machining) of rigid materials such as Acetal. Meets ASTM D 4181.	
Applications:	<ul style="list-style-type: none"> • Bearings and bushings • Pump and valve parts • Wear pads 	
Key Characteristics:	<ul style="list-style-type: none"> • Good dimensional stability • Low moisture absorption • Low friction 	
Availability:	Fabricated Parts:	The Gund Company custom fabricates insulation materials to the exact specifications and drawings specified by our customers.

Length, width, thickness, and diameter sizes are available in a wide variety, with the proper product specified for your particular application. Product colors will vary according to material type.

Typical Properties	Test Method	Homopolymer Acetal	Copolymer Acetal
Water Absorption, immersion 24 hours (%)	ASTM D570	0.25	0.20
Density (lb/in ³) (g/cm ³)	ASTM D792	0.051	0.051
	ASTM D792	1.41	1.41
Tensile Strength (psi)	ASTM D638	10,000	9,800
Flexural Modulus (psi)	ASTM D790	420	370,000
Izod impact, notched (ft-lbs/in of notch)	ASTM D256	1.5	1.0
Heat Deflection Temperature @ 264 psi °F/°C	ASTM D648	257	230
Maximum continuous service temperature in air (°F)	ASTM D648	185	195
Coefficient of Linear Thermal Expansion ((x 10 ⁻⁵ in./in./°F))	ASTM D696	6.80	6.1
Coefficient of friction (dynamic)	--	0.2	0.21

AS9100C Certified | ISO/AS9100 Certified QMS | RoHS Compliant | ITAR Compliant

Data supplied above are typical values and are not to be considered specification values. All of the information, suggestions and recommendations pertaining to the properties and uses of the products herein are based upon tests and data believed to be accurate; however, the final determination regarding 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 warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.