



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

POLYPROPYLENE

Item:	POLYPROPYLENE	
Description:	<p>Polypropylene (PP), also known as polypro, is a thermoplastic polymer found in a wide variety of applications. This thermoplastic is rugged and unusually resistant to many chemical solvents, acids, and bases. For this reason, it has excellent aesthetic qualities.</p> <p>Polypropylene is available in both homopolymer and copolymer grades. Homopolymer polypropylene is stronger and stiffer than copolymer. Copolymer polypropylene is a bit softer, but it is tougher and more durable than homopolymer polypropylene.</p>	
Applications:	<ul style="list-style-type: none"> • Low coefficient of friction • Excellent abrasion resistance • Chemical inertness 	
Key Characteristics:	<ul style="list-style-type: none"> • Low coefficient of friction • Excellent abrasion resistance • Chemical inertness 	
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	ASTM or UL test	Polycarbonate	Polycarbonate 20% Glass Filled
Water Absorption, immersion 24 hours (%)	ASTM D570	slight	slight
Tensile Strength (psi)	ASTM D638	5,400	3,800
Tensile Elongation at Yield (psi)	ASTM D638	12	23
Tensile Modulus (psi)	ASTM D638	195,000	--
Flexural Modulus (psi)	ASTM D790	225,000	215,000
Hardness, Rockwell R	ASTM D785	92	80
IZOD impact, notched (ft-lbs/in of notch)	ASTM D256	1.2	12.5
Maximum continuous service temperature in air (°F)	--	--	--
Heat Deflection Temperature@ 66 psi (°F)	ASTM D648	210	190
Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	ASTM D696	--	--
Volume Resistivity (ohm-cm) at 50% RH	ASTM D257	8.5 x 10 ¹⁴	2 x 10 ¹⁶
Arc Resistance (sec)	ASTM D495	160	100

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

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