



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

RYTON®

Item:	RYTON® - Polyphenylene Sulfide (PPS)	
Description:	Ryton polyphenylene sulfide (PPS) has a long standing reputation as a high performance engineering thermoplastic. With an exceptional degree of inherent thermal stability, dimensional stability, chemical resistance, and flame resistance, combined with excellent mechanical and electrical properties.	
Applications:	Bearings, Pumps, Gears	
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	RYTON®
Density (lb/in ³) (g/cm ³)	ASTM D792	0.061 1.7
Water Absorption %	ASTM D570	0.02
Tensile Strength (psi)	ASTM D638	5,000
Tensile Modulus (psi)	ASTM D638	730,000
Tensile Elongation at Break (%)	ASTM D638	1
Flexural Strength (psi)	ASTM D790	23,000
Flexural Modulus (psi)	ASTM D790	1,000,000
Compressive Strength (psi)	ASTM D695	24,000
Compressive Modulus (psi)	ASTM D695	1,300,000
Hardness, Rockwell	ASTM D785	M94/R125
Izod Impact Notched (ft-lb/in.)	ASTM D265	1
Coefficient of Linear Thermal Expansion x 10 ⁻⁵ in./in./°F	ASTM D696	2.5
Heat Deflection Temperature @ 264 psi °F/°C	ASTM D648	490 / 254
Melting Temperature (°F/°C)	ASTM D3418	540 / 282
Max. Use Temperature (°F/°C)	--	450 / 232
Thermal Conductivity BTU- in./ft ² -hr.-°F x 10 ⁻⁴ cal/cm-sec-°C	C177	2.1 7.23
Flammability Rating	UL 94	V-0
Dielectric Strength (V-mil) short time, 1/8" thick	ASTM D149	385
Volume Resistivity (ohm-cm) @ 50% RH	ASTM D257	>10 ¹³

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.