

Jiangsu Gonow Precision Technology Co., Ltd.









Polyphenylene Sulfide (PPS)

Gonow PPS (Polyphenylene Sulfide)

is a non-reinforced semi-crystalline polymer that offers exceptional strength and stability at elevated temperatures and is unaffected by even the harshest of chemical environments. Most acids, strong bases, fuels and even steam have virtually no affect on the physical properties of this material. While polyphenylene sulfide products have traditionally been know to be brittle, Gonow PPS machines easily and exhibits excellent toughness. Gonow PPS's extremely low moisture absorption rate and its low coefficient of thermal expansion contribute to this being one of the most dimensionally stable thermoplastic materials available. Gonow PPS offers superior electrical properties, is rated UL94, V-0, and is tan in color. Gonow Plastics offers Gonow PPS stock shapes in a wide range of heavy cross section rod, sheet, and tubular bar sizes.

Gonow PPS ATTRIBUTES

- 425°F relative thermal index rating
- Excellent strength and rigidity
- Extremely low moisture absorption
- Superior electrical properties
- Flame resistant UL 94, V-0 rated
- Easily machined and fabricated

TYPICAL INDUSTRIES

- Pump, valve & compressor mfg.
- Medical equipment
- Pharmaceutical manufacturing
- · Aircraft and aerospace
- Electrical and electronic products
- Semiconductor manufacturing
- Petroleum exploration & refining

APPLICATIONS

- Compressor vanes
- Manifolds and valves
- Electrical insulators, connectors and test sockets
- Liquid chromatography components
- Down hole drill & pump components
- CMP clamp rings
- Sensor components



GONOW PPS

Property	Test Method	Units	Gonow PPS
Mechanical Specific Gravity Tensile Strength Tensile Elongation Tensile Modulus of Elasticity Flexural Strength Flexural Modulus of Elasticity Izod Impact (notched) Rockwell Hardness	ASTM-D792 ASTM-D638 ASTM-D638 ASTM-D638 ASTM-D790 ASTM-D790 ASTM-D256 ASTM-D785	psi % psi psi psi ftlbs./in. M scale	1.35 12,500 6 500,000 21,000 600,000 0.5 M93
Thermal Coef. of Linear Thermal Expansion Relative Thermal Index Heat Deflection Temp. @ 264 psi Melting Point	ASTM-D696 UL 746 ASTM-D648 ASTM-D3418	in./in./ °F °F °F °F	3 x 10 ⁻⁵ 425 221 540
Electrical Dielectric Strength-Short Term Dielectric Constant @10 ⁶ Hz Dissipation Factor @ 60 Hz Volume Resistivity	ASTM-D149 ASTM-D150 ASTM-D150 ASTM-D257	volts/mil ohm-cm	450 3.0 0.0009 >10 ¹⁶
Miscellaneous Water Absorption/24 hrs. Flammability	ASTM-D570 UL 94	% weight	0.02 V-0 (0.125'')

Jiangsu Gonow Precision Technology Co., Ltd. is dedicated to supplying our customers with the highest quality thermoplastic stock shapes for machining. We manufacture and stock a full line of thermoplastic materials in a wide variety of rod, plate and tubular bar sizes. In addition, we offer over 20 years of experience in the custom extrusion of application-specific and proprietary resins to meet even the most demanding performance requirements. Gonow Plastics offers full technical support for all products and is certified to ISO 9002 standards for the manufacture of extruded plastics stock shapes.



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