



Jiangsu Gonow Precision Technology Co., Ltd.

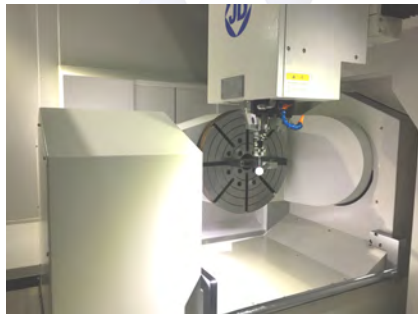
GONOW PET Polyester Terephthalate



PET from Gonow Plastics is a semi- crystalline polyester terephthalate (PET) polymer that exhibits excellent strength, rigidity, and machinability. Additionally, this material offers dimensional stability and wear resistance that meets or exceeds that of nylon or acetal. Due to it's superior chemical resistance and food contact approvals, PET stock shapes are the preferred material for components in food processing applications such as pistons, valves, feed screws, and food product forming and extrusion dies. Additionally, the low moisture absorption and low rate of thermal expansion offered by Gonow makes it ideal for demanding applications that require close tolerance, precisely machined component parts. PET machines easily and is offered by Gonow Plastics in a complete range of extruded rod and heavy gauge plate sizes.

APPLICATIONS

- Pistons
- Valves
- Manifolds
- Food product forming dies
- Timing screws
- Scraper blades



Gonow PET ATTRIBUTES

- 230°F continuous use temperature
- High strength and stiffness
- Superior wear resistance
- Chemically resistant to chlorine and caustic/acidic cleaning agents
- Improved UV resistance compared to acetal or nylon
- Very low moisture absorption
- Easily machined and fabricated
- FDA, USDA, and 3-A Dairy Compliant
- Very high "Value to Cost" ratio



TYPICAL INDUSTRIES

- Food and dairy processing
- Material handling equipment
- Fluid handling
- Electronics manufacturing
- Automotive



GONOW PET Polyester Terephthalate

Property	Test Method	Units	Gonow PET
			Unfilled PET
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 ft.-lbs./in. R scale	1.34 12,200 25 470,000 17,500 490,000 0.6 R125
Thermal Coef. of Linear Thermal Expansion Continuous Use Temp. Heat Deflection Temp. @ 264 psi Melting Point	ASTM-D696 ASTM-D648 ASTM-D3418	in./in./°F °F(°C) °F(°C) °F(°C)	3.6 x 10 ⁻⁵ 230 190 491
Electrical Dielectric Strength-Short Term Dielectric Constant @ 60 Hz Dissipation Factor @ 60 Hz Volume Resistivity	ASTM-D149 ASTM-D150 ASTM-D150 ASTM-D257	Volts/mil Ohm-cm	450 3.4 0.002 >10 ¹⁴
Miscellaneous Water Absorption/24 hrs. Water Absorption @ Saturation Flammability Color	ASTM-D570 ASTM-D570 UL 94	% weight % weight	0.1 0.9 HB White
Agency Compliance FDA USDA 3-A Dairy Sanitary Standards			YES YES YES

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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