

Jiangsu Gonow Precision Technology Co., Ltd.











Gonow PVDF (Polyvinylidene Fluoride)

is a non-reinforced highly crystalline fluoropolymer that combines exceptional chemical resistance with superior strength and stability. When compared with traditional fluoropolymers like PTFE, Gonow PVDF offers up to three times the typical strength and stiffness while maintaining unparalleled resistance to even the harshest chemicals - even at temperatures up to 300°F. These properties, along with its natural flame retardancy (UL94, V-0) and ultrahigh purity have made it the material of choice for processing equipment components used in semiconductor manufacturing clean room environments. Because it also offers excellent toughness and electrical properties that remain stable over a wide range of both frequencies and temperatures. Gonow PVDF is also used in components used for power transmission.

Gonow PVDF is offered in two grades: Gonow 740 (beige) and Gonow 1010(white). Both grades machine easily and are available from Gonow Plastics in a full range of heavy gauge rod, plate and tubular bar sizes.

GONOW PVDF ATTRIBUTES

- 300°F continuous use temperature
- Excellent balance of strength, toughness and abrasion resistance
- · Resistant to virtually all chemicals and solvents
- Extremely low moisture absorption
- · Low permeability to gases & liquids
- Excellent UV & nuclear radiation resistance
- Flame resistant UL 94 V-0 rated
- · Easily machined and fabricated

TYPICAL INDUSTRIES

- Chemical
- Pulp and paper processing
- · Food processing equipment
- · Electrical and electronics products
- Semiconductor manufacturing
- Petroleum processing

APPLICATIONS

- Pump components
- Manifolds and valves
- Fluid sensors
- · Liquid chromatography components
- Analytical instruments
- Bearings and bushings





GONOW PVDF

Property	Test Method	Units	Gonow 740 PVDF Unfilled	Gonow 1010 PVDF Unfilled
Mechanical Specific Gravity Tensile Strength Tensile Elongation Tensile Modulus of Elasticity Flexural Strength Flexural Modulus of Elasticity Izod Notched Impact Rockwell Hardness	ASTM-D792 ASTM-D638 ASTM-D638 ASTM-D638 ASTM-D790 ASTM-D790 ASTM-D256 ASTM-D785	— psi psi psi ftlbs./in. R scale	1.78 6,000 150 228,000 7,250 240,000 5.5 R84	1.77 7,850 80 348,000 10,800 392,000 2.0 R110
Thermal Coef. of Linear Thermal Expansion Continuous Use Temperature Heat Deflection Temp. @ 264 psi Melting Point	ASTM-D696 UL 746 ASTM-D648 ASTM-D3418	in./in./ °F °F °F °F	6.6 × 10 ⁻⁵ 300 240 340	7.1 × 10 ⁻⁵ 300 235 352
Electrical Dielectric Strength – Short Term Dielectric Constant @ 10 ⁶ Hz Volume Resistivity	ASTM-D149 ASTM-D150 ASTM-D257	volts/mil ohm-cm	260-280 8.2 10 ¹⁶	260-280 5x10 ¹⁴
Miscellaneous Water Absorption/24 hrs. Water Absorption @ Saturation Dynamic Coefficient of Friction Flammability Color	ASTM-D570 ASTM-D570 UL 94	% weight % weight	0.01-0.03 0.03 0.58 V-0 Beige	<0.04 0.08 V-0 White

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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