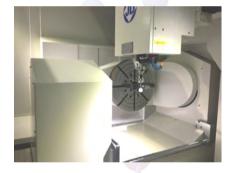


## Jiangsu Gonow Precision Technology Co., Ltd.

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# **Extruded Nylon 6/6**

Since its introduction in 1938, Nylon has become one of the world's most widely recognized and utilized engineering grade thermoplastics. Nylon's unique combination of high strength and toughness, outstanding chemical resistance, and excellent wear and abrasion resistance have made it the material of choice for product designs in a multitude of industries. When used to replace wear grade metals like brass and bronze, no other material provides the combination of extended wear life, light weight, and low fabricated part cost of Nylon. Gonow Plastic's Nylon 6/6 stock shapes are available in a wide range of grades—including both lubricated, heat stabilized, and fiber reinforced products. Nylon 6/6 materials are offered by Gonow Plastics in a complete range of extruded round, square, and hex rod, heavy gauge plate, and tubular bar sizes.

#### **GONOW NYLON 6/6 ATTRIBUTES**

- 210°F continuous use temperature
- · High strength and stiffness
- Excellent toughness
- Superior wear and abrasion resistance
- Outstanding resistance to chemical attack
- Easily machined and fabricated

# EXTRUDED NYLON 6/6 PRODUCTS GONOW Nylon 6/6 – Unfilled Nylon 6/6 – natural and black colors

• 210°F continuous use temperature

## GONOW Ld – Molybdenum Disulfide (MoS<sub>2</sub>) filled Nylon 6/6

- · Improved wear resistance
- Mottled gray/black color

#### GONOW Im - Nylon 6/12

- · High impact resistance
- Low moisture absorption

#### GONOW im - ST801 - "Super Tough" Nylon

Premium impact resistance

#### GONOW Rg - 30% Glass fiber filled Nylon 6/6

Improved strength and stiffness

#### **GONOW Rk - Aramid fiber filled Nylon 6/6**

Best wear resistance of any nylon product

• Improved strength and stiffness

#### TYPICAL INDUSTRIES

- · Food and dairy processing
- · Paper manufacturing
- Material handling
- Automotive
- · Fluid handling
- Textile production
- Electronics manufacturing
- Mining
- Construction

#### **APPLICATIONS**

- · Pistons and valves
- · Rollers and wheels
- Manifolds
- · Electrical components
- · Food product forming dies
- · Bushings and bearings
- Sheaves and pulleys
- · Gears, sprockets, and star wheels
- · Feed and timing screws
- · Pump components
- Scraper blades
- · Wear pads and wear strips



### **GONOW EXTRUDED NYLON 6/6**

Property	Test Method	Units	GONOW	GONOW Ld	GONOW Im	GONOW im	GONOW Rg	GONOW Rk
			Unfilled Nylon 6/6	MoS₂ Filled Nylon 6/6	Nylon 6/12	ST801	30% Glass Fiber filled Nylon 6/6	Fiber filled Nylon 6/6
Mechanical Specific Gravity Tensile Strength Tensile Elongation Tensile Modulus of Elasticity Flexural Strength Flexural Modulus of Elasticity Compressive Strength Izod Notched Impact Rockwell Hardness	ASTM-D792 ASTM-D638 ASTM-D638 ASTM-D638 ASTM-D790 ASTM-D790 ASTM-D695 ASTM-D256 ASTM-D785	psi % psi psi psi psi ftlb./in. M or R scale	1.14 11,500 60 410,000 14,500 410,000 13,000 1.4 M80(R121)	1.16 11,800 50 500,000 15,000 480,000 16,000 0.8 M85(R115)	1.06 8,000 200 325,000 14,000 300,000 15,500 1.2 R108	1.08 7,500 60 245,000 17.0 R112	1.35 13,400 4-6 550,000 19,000 650,000 20,000 1.2 M101	1.18 14,750 4-5 19,000 615,000
Thermal Coef.of Linear Thermal Expansion Max. Continuous Use Temp. Heat Deflection Temp. @ 264 psi Melting Point	ASTM-D696 ASTM-D648 ASTM-D3418	in./in./ °F °F °F °F	4.0 x 10 <sup>-5</sup> 210 200 504	4.0 x 10 <sup>-5</sup> 210 210 495	5.0 x 10 <sup>-5</sup> 200 149 423	6.7 x 10 <sup>-5</sup> 210 160 504	1.2 x 10 <sup>-5</sup> 210 460 504	5.0 x 10 <sup>-5</sup> 210 450 504
Electrical Dielectric Strength-Short Term Dielectric Constant @ 60 Hz Dielectric Constant @ 10 <sup>6</sup> Hz Dissipation Factor @ 60 Hz Volume Resistivity	ASTM-D149 ASTM-D150 ASTM-D150 ASTM-D150 ASTM-D257	volts/mil	400 5.0 3.6 0.01 10 <sup>15</sup>	350 10 <sup>13</sup>	6.0 4.0 0.015 10 <sup>13</sup>	3.2 2.9 0.01 10 <sup>14</sup>	530 3.5 3.7 0.014 10 <sup>15</sup>	350 4.0 3.4 0.01 10 <sup>15</sup>
Miscellaneous Water Absorption/24 hrs. Water Absorption @ Saturation Flammability Dynamic Coefficient of Friction	ASTM-D570 ASTM-D570 UL-94	% weight % weight	1.2 8.5 V-2 0.25	0.7 6.5 V-2 0.23	0.25 3.0 HB 0.30	1.2 6.7 HB 0.29	0.7 5.4 HB 0.31	1.0 8.0 HB 0.30
Agency Compliance FDA USDA NSF			YES YES YES	NO NO NO	NO NO NO	NO NO NO	NO NO NO	NO NO NO

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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