



THE GUND COMPANY

MANUFACTURERS & FABRICATORS OF ENGINEERED MATERIAL SOLUTIONS

NYLON

Item:	NYLON	
Description:	<p>Nylon is a of a synthetic polymer family that is more commonly referred to as polyamides. Nylon has great abrasion resistance, good wear, and a low coefficient of friction. It is USDA approved, FDA compliant and it is most often selected for it's ease of machinability.</p> <p>Nylon is a strong, stiff engineering plastic with outstanding bearing and wear properties. Nylon is frequently used to replace metal bearings and bushings, often eliminating the need for external lubrication. Other benefits include a reduction in part weight, less operating noise, and decreased wear on mating parts.</p>	
Applications:	<ul style="list-style-type: none"> • Food processing machinery components • Wheels • Rollers • Seals and gaskets 	
Key Characteristics:	<ul style="list-style-type: none"> • Enhanced bearing and wear grades available • FDA compliant grades available • Glass-filled grades available 	
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	Test Method	Extruded Nylon 6/6	Cast Nylon
Water Absorption, Immersion 24 Hours (%)	ASTM D570	1.2	.6 - 1.2
Tensile Strength (psi)	ASTM D638	12,400	10,000 - 13,500
IZOD Impact, Notched (ft-lbs/in of notch)	ASTM D256	1.2	0.7 - 0.9
IZOD Notched Impact (ft-lbs/in)	ASTM D258	0.4	--
Hardness, Rockwell R	ASTM D785	R115	--
Tensile Elongation at Break (%)	ASTM D638	20	--
Flexural Modulus (psi)	ASTM D790	410,000	420,000 - 500,000
Heat Deflection Temperature @ 264 psi (°F)	ASTM D648	194	200 - 400
Maximum Continuous Service Temperature in Air (°F)	--	210	230
Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	ASTM D696	4.5	5.0
Coefficient of Friction (dynamic)	--	0.28	0.22

Length, width, thickness, and diameter sizes and color may vary.

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.