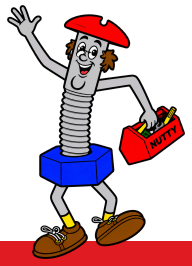
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FASTENER SPECIALISTS SINCE 1977

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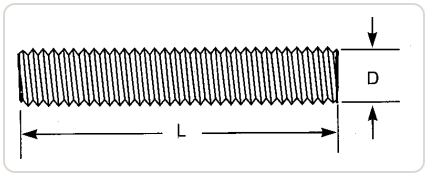
PRODUCT DATA SHEET

Nylon 6/6 Threaded Rod

1.0 Dimensions & Sizes

Thread as per ASME B1.1 (inches)

- **Material:** Nylon 6/6, natural color.
- **Thread:** Unified inch (UNC / UNF), right hand, threaded full length.
- **Lengths available:** 2 ft. (24"), 3 ft. (36") and 6 ft. (72").
- **Stocked:** 2 ft. lengths, #4-40 up to 3/4-10.
- Threaded rod ends are **not pointed** (not chamfered).





NYLON ROD

SIZES

Size & TPI	Series	Basic Major Dia. (in.)	Tensile Stress Area (sq. in.)	Approx. Ultimate Tensile Load (lbs.)*	Approx. Wt. 2 ft. (lbs.)	Lengths		
						2 ft.	3 ft.	6 ft.
#4-40	UNC	0.1120	0.0060	72	0.007	✓	A	A
#6-32	UNC	0.1380	0.0091	109	0.011	✓	A	A
#8-32	UNC	0.1640	0.0140	168	0.016	✓	A	A
#10-24	UNC	0.1900	0.0175	210	0.021	✓	A	A
#10-32	UNF	0.1900	0.0200	240	0.022	✓	A	A
1/4-20	UNC	0.2500	0.0318	382	0.037	✓	A	A
5/16-18	UNC	0.3125	0.0524	629	0.059	✓	A	A
3/8-16	UNC	0.3750	0.0775	930	0.087	✓	A	A
1/2-13	UNC	0.5000	0.1419	1,703	0.157	✓	A	A
5/8-11	UNC	0.6250	0.2260	2,712	0.249	✓	A	A
3/4-10	UNC	0.7500	0.3345	4,014	0.364	✓	A	A

✓ = stocked • A = available on request. Weights are approximate. *Approx. ultimate tensile load = typical tensile strength (12,000 PSI) × tensile stress area – use a suitable safety factor.

2.0 Chemical Resistance

General guide – test for your application

Good resistance	Oils, greases, gasoline & fuels, most solvents, alcohols, ketones, mild alkalis
Poor resistance	Strong acids (mineral acids), phenols, oxidizing agents, chlorine bleach
Outdoors	Natural nylon is not UV stabilized – long sunlight exposure makes it brittle

3.0 Material Properties

Typical values, 73°F, dry as molded

Property	Nylon 6/6	Test Method
Material	Nylon 6/6 (Polyamide 66, PA66), natural (white / off-white)	ASTM D4066
Specific Gravity	1.14	ASTM D792
Tensile Strength	12,000 PSI (83 MPa)	ASTM D638
Elongation at Break	60%	ASTM D638
Flexural Modulus	410,000 PSI (2.8 GPa)	ASTM D790
Hardness	Rockwell R120	ASTM D785
Izod Impact, Notched	1.0 ft-lb/in	ASTM D256
Melting Point	500°F (260°C) – material liquefies	ASTM D3418
Max. Continuous Service Temp.	170°F to 248°F (76°C to 120°C) in air – properties degrade above this	–
Short-Term Peak Temp.	Up to 356°F (180°C) for brief periods, without significant load	–
Heat Deflection Temp.	200°F (93°C) @ 264 PSI	ASTM D648
Water Absorption	1.2% (24 hrs) • 8.5% (saturation)	ASTM D570
Dielectric Strength	600 V/mil	ASTM D149
Flammability	UL 94 V-2	UL 94
Thread	Unified inch (UNC / UNF), ASME B1.1, right hand	ASME B1.1
RoHS	Compliant	–

4.0 Features & Application Notes

- **Non-conductive & non-magnetic** – ideal for electrical panels, circuit boards, insulating spacers, electronics and MRI / lab equipment.
- **Corrosion resistant** – will not rust; good for marine, food, water treatment and chemical areas (see section 2.0).
- **Lightweight** – about 1/7 the weight of steel. Vibration dampening and quiet; will not scratch or mar finished surfaces.
- **Moisture:** nylon absorbs water. Moist nylon is tougher but has lower strength and stiffness, and can grow slightly in size.
- **Do not over-tighten.** Snug by hand or with light torque; nylon threads strip and creep under high load. Not for structural or load-bearing applications.
- Cut to length with a fine-tooth saw. Use with Nutty nylon hex nuts, wing nuts, acorn nuts and flat washers.

Disclaimer: Values shown are typical properties of nylon 6/6 at 73°F, dry as molded – they are not specification minimums and will vary with moisture, temperature and manufacturer. The Nutty Company, Inc. has made every effort to present the data accurately, but cannot be held liable for any claim traceable to any errors, typographical or otherwise, contained herein.



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