

Nylon Technical Datasheet

Key Features

- Good mechanical properties
- Good fatigue resistance
- Noise damping
- Good bearing and wear resistance

Material Description

Nylon, also known as polyamide, is a versatile thermoplastic known for its high strength, toughness, and abrasion resistance. It is widely used in various industries due to its excellent mechanical properties and chemical resistance. Nylon can be easily molded, extruded, and machined, making it suitable for a wide range of applications, including gears, bearings, bushings, conveyor belts, textiles, carpets, ropes, and more.

Mechanical Properties

- Ultimate Tensile Strength Tensile Yield Strength Hardness Elongation at Break
- 102 MPa 73.4 MPa Rockwell R95 44.2%

Physical Properties

Common Applications

Gears and bearings

Sprockets

Sheaves

Density Thermal Conductivity Modulus of Elasticity Melting Point

0.043 lb/in³ (1.20 g/cm³) 0.301W/m.K 2.31 GPa 261 °C

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

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