Nylon 6

Nylon 6 provides good wear resistance and toughness.

Mechanical properties

Ultimate tensile strength	64.7 - 79.1 MPa
Yield strength	51.2 - 63.8 MPa
Young's modulus (modulus of elasticity)	1.58 - 1.97 GPa
Elongation at break	200-300 %
Hardness	16.4-18.1 HV

Physical properties

UV resistance	Fair

Thermal properties

Maximum service temperature	90 - 130 °C
Thermal expansion coefficent	88.2 - 91.8 10^-6/ºC
Thermal conductivity	0.294 - 0.306 W/(m·°C)

Electrical properties

ESD Safety	No

Common applications

Transportation	
Electronics & Electrical components	

Nylon 6 CNC Machining Applications & Parts

Nylon 6 is a tough, wear-resistant, and versatile engineering plastic with good mechanical properties and chemical resistance, ideal for producing high-strength, low-friction components through precision machining.

Typical Parts We Machine from Nylon 6:

- **Wear Components:** Gears, Bushings, Bearings, Rollers, Slides
- **Industrial Hardware:** Fasteners, Pulleys, Spacers, Valve Seats
- **Consumer Products:** Functional Prototypes, Sporting Goods Components, Handles

Our Machining Advantage:

We understand the hygroscopic nature of Nylon and machine it in a controlled environment to ensure final part stability, preventing future dimensional change due to moisture absorption.

Get an Instant Quote your custom Nylon 6 parts today.