



Extruded Nylon

Wear Resistant Polyamide Type 6/6

Description and Overview

Extruded nylon, also known as nylon 6/6 or 66 nylon, is a wear-resistant thermoplastic with similar properties to cast nylon, including excellent toughness, impact strength, and low friction properties. It is dimensionally stable and resistant to moisture, solvents, and other chemicals.

Though they have many similar physical properties, extruded nylon has some differences compared to cast nylon. Extruded nylon is easier to machine and tends to exhibit better dimensional stability than cast nylon. Extruded nylon is also more cost-effective than cast nylon, but has a slightly lower melting point.

Applications and Uses

As one of most popular thermoplastics, extruded nylon is used in a wide variety of applications and industries, including the agriculture, manufacturing, construction, automotive, textile, and food processing industries to name a few. Its properties allow it to replace many metal components, help extend part life, and reduce noise when in operation.

- Bearings with close tolerances
- Bushings
- Precision gears
- Sprockets
- Rollers
- Wheels
- Seals
- Gaskets
- Bo peep rods for harvesting crops



Extruded nylon is available in unfilled and specialty grades.
Full sheet: 48" x 120" (.060" through 2" thick)
Rod: .25" through 6" diameter

Properties and Specifications

Property	Extruded Nylon
Density	1.14g/cm ³
Tensile Strength @ break	12,300 psi
Tensile Modulus	350 ksi
Flexural Strength	16,500 psi
Flexural Modulus	440 ksi
Elongation @ break	50%
Izod Impact Strength	1 ft-lb/in.
Hardness, Rockwell	R85
Compressive Modulus	392 ksi
Heat Deflection Temperature	194°F
UL 94 Flammability	HB
Affixable Properties	Chem / Mech

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

330 Commerce Circle
Sacramento, CA 95815
800-742-3444
interstateam.com



WARNING: This product can expose you to chemicals including Methylpyrrolidone, CAS 68-12-2, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



WARNING: This product can expose you to chemicals including N,N-Dimethylformamide, CAS 68-12-2, which are known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov.



INTERSTATE
ADVANCED MATERIALS

Rev 1 (3/07/2024)