Jade Engineered Plastics
15 New Industrial Way
Warren, RI 02885

US & Canada: (800) 557-9155
Outside US & Canada: (401) 253-4440
www.jadeplastics.com

Nylon

Aliphatic Polyamide

OVERVIEW

Nylon is a rigid mechanical thermoplastic with outstanding toughness, impact strength, electrical insulation and dimensional stability. Nylon is known for high heat deflection and outstanding performance within load-bearing and wear applications. Nylon is self-lubricating and comes in both cast type 6 and extruded type 6/6 grades. Cast type 6 nylon is more pliable with higher strength and dimensional stability. Extruded type 6/6 nylon has a higher melting point. Oil-filled, glass-filled and MD variations of nylon feature additives for enhancement of mechanical properties.

APPLICATIONS & USES

Nylon is most often used to produce mechanical parts. Nylon is a great material when noise reduction and long part life are required and is often used to replace metal bearings and bushings.

- Bearings
- Bushings
- Gears
- Screws
- Sheaves
- Machinery components
- Stress components
- Seals
- Gaskets
- Wear pads
- Wheels and rollers

TECHNICAL DATA

PROPERTY	VALUE
Tensile Strength (psi)	11,800
Tensile Modulus (psi)	435,000
Flexural Strength (psi)	16,500
Flexural Modulus (psi)	460,000
Elongation at Break	~55%
Max Service Temperature	230° F
Izod Impact, Notched	0.9
Deflection Temperature	~300° F
Melting Point	450° F
Coefficient of Friction	0.22
Affixable Properties	Mech