

Polyamide-6 Technical Data Sheet

Product Characteristics

Polyamide 6, also called Nylon 6, is a thermoplastic material that belongs to the family of nylon polymers. It contains a recurring amide group (-CONH-) in the chain. The resulting polymer has a semi-crystalline structure, which gives it excellent mechanical properties such as high tensile strength and good impact resistance.

Applications

- Automotive parts
- Electrical components
- Home appliance

Properties:

- High strength and toughness
- High flexibility
- Good wear resistance
- Good dimensional stability
- Resistance to heat, chemicals, and moisture
- Good electrical insulation properties
- Reinforced with fiber glass

Specifications & Properties

Tensile Strength:	Pull up test speed 20mm/min	77.1 Mpa
Elongation at break:		52.4%
Tensile modulus:		1340 Mpa
Bending strength:	Bend test speed 5mm/min	121.21 Mpa
Bending modulus:		3020.68 Mpa
Notched impact strength:	Room temperature	8.12 KJ/m ²
Thermal deformation temp.:		70.6 °C, 1.82 Mpa
Melt index:	Test temperature 230 °C Weight 2160 g	31.08 g/10min
Shore hardness:		77.2 HD

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Packing

In 25kg bags

Product Storage

Polyamide resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. in case material picks up moisture, customer is strongly advised to dry the resin prior to use. It is advisable to process Polyamide resin within 6 months after delivery.



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