



Chinese Nylon PA12

Technical Data



◆ Material Overview

Chinese Nylon is a material with high mechanical properties, and the utilization rate is close to 100%. Compared with other materials, Chinese Nylon powder has excellent characteristics such as high fluidity, low static electricity, low water absorption, moderate melting point and high dimensional accuracy of products. Fatigue resistance and toughness can also meet workpieces requiring higher mechanical properties.

◆ Advantage

- > Good toughness and heat resistance,
- > Less water absorption
- > Corrosion resistance
- > Stable molding process and good dimensional stability

◆ Ideal Applications

- > Automobile
- > Aerospace
- > Medical assistance
- > Architecture
- > Consumer goods
- > Prototype

◆ Technical Datasheet

Part Color	Visual	White
Density	DIN 53466	0.95g/cm ³
Elongation at break	ASTM D638	8–15%
Flexural strength	ASTM D790	47 MPa
Flexural modulus	ASTM D7S90	1,700 MPa
Heat deflection temperature 0.45Mpa	ASTM D648	167°C
Heat dedflection temperature 1.82Mpa	ASTM D648	58°C
Tensile modulus	ASTM D256	1,700 MPa
Tensile strength	ASTM D638	46 MPa
IZOD impact strength with notch	ASTM D256	51 J/M
IZOD impact strength without notch	ASTM D256	738 J/M

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