



NYLON PA11

Technical Polyamide for Strong and Flexible Parts

High-performance material, ideal for components requiring fatigue resistance, high resilience, and light weight. An excellent alternative to injection moulding for dynamic applications, even in chemically aggressive environments.

MJF 3D PRINTING



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Main Features

- ✓ High ductility and impact resistance
- ✓ Excellent flexibility and dimensional stability
- ✓ Good resistance to hydrocarbons, oils, and cyclic stresses
- ✓ Ideal for moving parts or those subject to repeated deformations

Applications

- ✓ Functional prototypes and end-use parts
- ✓ Automotive parts and consumer electronics components
- ✓ Direct replacement for injection-moulded parts in short production runs
- ✓ Excellent choice for components subjected to repeated stress

Based on currently available data, the information in this document is considered accurate. Fasipol makes no explicit or implicit warranties regarding the results obtained from its use or the accuracy of such results.

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Certified Company
UNI EN ISO
9001:2023



Technical Data

PROPERTY	VALUE	METHOD
Density	1.05 g/cm ³	ASTM D792
Water absorption (sat.)	1.07 %	ISO 62
Tensile strength	52 MPa	ASTM D638
Elongation at break	36 %	ASTM D638
Yield strength	42 MPa	ISO 527
Elastic modulus	1700 MPa	ASTM D638
Flexural strength	70 MPa	ASTM D790
Resilience	193 kJ/m ²	ISO 179
Hardness	80 D Shore	ASTM D2240
HDT at 0.45 MPa	185 °C	ASTM D648
HDT at 1.8 MPa	54°C	ASTM D648
Vicat softening temperature	175 °C	ISO 306
Melting temperature	202 °C	ASTM D3418
Flammability	HB	UL94
Electrical resistivity	10 ¹⁰ Ω·m	UL746A / ASTM D257

Printing Specifications

TECHNOLOGY: HP Multi Jet Fusion
LAYER HEIGHT: 0.08 mm
MAX PART DIMENSIONS: 380 × 284 × 380 mm
TOLERANCES: ±0.50 mm < 100 mm / ±0.5% > 100 mm

Certifications

• RoHS
• REACH
• PAHs
• Suitable for toy applications
• Not suitable for food contact • (EC 1935/2004 - 10/2011)