



Technical Polyamide for Prototypes and Functional Parts

High-performance material, ideal for rapid production of strong, lightweight, and dimensionally stable components. An excellent alternative to injection moulding, it offers excellent precision and mechanical strength.



Main Features

- Excellent resistance to heat and industrial fluids
- ✓ High precision and dimensional stability
- Real alternative to injection moulding
- Good base for subsequent surface treatments and finishing
- Excellent mechanical and chemical resistance

Applications

- ✓ Functional prototypes and end-use parts
- ✓ Rapid production of small to medium series
- ✓ Lightweight, strong, and dimensionally stable technical parts
- Components subjected to mechanical and thermal stresses



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.

Technical Data

PROPERTY	VALUE	METHOD
Density	1.01 g/cm³	ASTM D792
Water absorption (sat.)	1,50 %	ISO 62
Hygroscopicity	0.70 %	ISO 62
Tensile strength	48 MPa	ASTM D638
Elongation at break	20 %	ASTM D638
Yield strength	40 MPa	ISO 527
Elastic modulus	1700 MPa	ASTM D638
Flexural strength	70 MPa	ASTM D790
Resilience	45 kJ/m²	ISO 179
Hardness	80 D Shore	ASTM D2240
HDT at 0.45 MPa	175 °C	ASTM D648
HDT at 1.8 MPa	95 °C	ASTM D648
Vicat softening temperature	175 °C	ISO 306
Melting temperature	187 °C	ASTM D3418
Flammability	НВ	UL94
Thermal conductivity (20°C)	0,23 W/mK	ISO 22007
Electrical resistivity	10¹² Ω·m	UL746A / ASTM D257

Printing Specifications

TECHNOLOGY:

HP Multi Jet Fusion

LAYER HEIGHT:

0.09 mm

MAX PART DIMENSIONS:

380 × 284 × 380 mm

TOLERANCES:

 $\pm 0.30 \text{ mm} < 100 \text{ mm} / \pm 0.3\% > 100 \text{ mm}$

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Certifications

- RoHS
- PAHs
- UL746A
- REACH
- UL94
- USP Class VI
- Suitable for toy applications
- Not suitable for food contact (CE 1935/2004 – 10/2011)