

Nylon PA11

Poliamide 11, Nylon 11

Characterised by high ductility and flexibility, it is an optimal choice where strength and performance are essential



Material properties

Density	ASTM D792	1,05	g/cm ³
Water absorption at saturation	ISO 62	1,07	%
Suitability for food contact	CE 1935/2004 – 10/2011	NO	
Tensile strength	ASTM D638	52	MPa
Elongation at break	ASTM D638	36	%
Yield strength	ISO 527	42	MPa
Elastic modulus	ASTM D638	1700	MPa
Flexural strength	ASTM D790	70	MPa
Resilience	ISO 179	193	kJ/m ²
Hardness	ASTM D2240	80 D	Shore
HDT 0.45 MPa	ASTM D648	185	°C
HDT 1.8 MPa	ASTM D648	54	°C
Vicat softening temperature	ISO 306	175	°C
Melting temperature	ASTM D3418	202	°C

Printing layer height

0,08 mm (0,003 in)

Maximum dimensions

380x284x380 mm (15x11.2x15 in)

Tolerances

± 0,50mm < 100mm / ± 0,5% > 100mm

Applications

For functional prototypes and automotive and consumer electronics end parts. Excellent impact and fatigue resistance for parts requiring hundreds of opening and closing cycles. Can replace injection moulded parts. Resistant to hydrocarbons and oils.

Certifications

USP class VI - RoHS - REACH - PAHs -
Declaration of composition for applications on toys

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Flammability	UL94	HB
Volumic electrical resistivity	UL746A / ASTM D257	10¹⁰ Ω*m

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