Nylon PA11

Polyamide 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/cm³
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/m²
Hardness	ASTM D2240	**80 D**	Shore
HDT 0.45 MPa	ASTM D648	**185**	°C
HDT 1.8 MPa	ASTM D648	**54**	°C

Printing layer height

0.003 in (0.08 mm)

Maximum dimensions

15x11.2x15 in (380x284x380 mm)

Tolerances

± 0.02 in < 3.94 in / ± 0.3% > 3.94 in

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.