Nylon PA12 Caricato vetro

Nylon PA 12 GB, Nylon PA 12 40% Glass Filled

Nylon PA 12 40% GF is suitable for demanding conditions and is recommended for all applications where thermal stability and structural rigidity are required.

Material properties

Density	ASTM D792	**1,30**	g/cm³
Water absorption at saturation	ISO 62	**1,70**	%
Hygroscopicity	ISO 62	**0,80**	%
Suitability for food contact	CE 1935/2004 – 10/2011	**NO**	
Tensile strength	ASTM D638	**30**	MPa
Elongation at break	ASTM D638	**10**	%
Yield strength	ISO 527	**47,5**	MPa
Elastic modulus	ASTM D638	**2500**	MPa
Flexural strength	ASTM D790	**57,5**	MPa
Resilience	ISO 179	**80**	kJ/m²
Hardness	ASTM D2240	**82 D**	Shore
HDT 0.45 MPa	ASTM D648	**174**	°C
HDT 1.8 MPa	ASTM D648	**114**	°C
Melting temperature	ASTM D3418	**186**	°C
Flammability	UL94	**HB**	

Printing layer height
0,08 mm (0,003 in)

Maximum dimensions
380x284x380 mm (15x11.2x15 in)

Tolerances
± 0,40mm < 100mm / ± 0,4% > 100mm

Applications
For functional prototypes and final products. Suitable for manufacturing components where rigidity and dimensional stability are key parameters. Good chemical resistance to oil, grease and hydrocarbons.

Certifications
RoHS - PAHs - REACH - UL 94 - UL746A

Volumic electrical resistivity	UL746A / ASTM D257	**10^12**	Ω*m