

MJF - PA12+GB

Material data sheet for Polyamide (PA12) with glass beads parts produced with MJF technique. Accuracy varies according to geometry, part orientation and print size. ± 0.25 mm + 0.2% of the longest axis. Distortion may cause greater deviation. Color is stone grey or incolored Black/Dark grey.

PA 12 Glass Beads is a Multi Jet Fusion nylon plastic infused with glass beads that improve product stiffness and structural integrity. This material is 40% glass-filled which reduces warping during the printing process and over the product's life. PA12 Glass Beads is great for flat and large parts that are prone to warping in Versatile Plastic and MJF PA12 Plastic and for functional parts that require high strength and dimensional accuracy.

Material Properties	Value	Standard
Tensile Strength	30 MPa	ASTM D638
Tensile Modulus (x/y/z)	2500/2500/2700 MPa	ASTM D638
Elongation at break	10%	ASTM D638
Flexural modulus (x/y/z)	2400/2400/2700 MPa	ASTM D638
Izod impact notched @3.2mm 23°C	3 KJ/m ²	ASTM D256 TM A
Shore D Hardness	82	ASTM D2240

Thermal Properties	Value	Standard
Melting temperature (20°C/min)	186°C	ASTM D3418
Heat deflection temperature x/y/z (1.82 MPa) 264psi	114-120°C	ASTM D648 TM A
Heat deflection temperature x/y/z (0.45 MPa) 66psi	174-175°C	ASTM D648 TM A

Other Properties	Value
Certifications	UL94, UL746A
Color	Natural stone grey or incolored black/dark grey