

# PA12 - MJF



With PA12 and Multi Jet Fusion you can produce strong quality parts for functional tests and serial production. You will get fine detail and high dimensional accuracy parts and can take the advantages to design complex parts with lattice structures. The dimensional tolerances of the final parts will be  $\pm 0,1-0,3\text{mm}$

PA12 MJF is ideal for series of complex assemblies, housings, enclosures and connectors. The material has excellent chemical resistance to oils, greases, aliphatic hydrocarbons and alkalies. The powder has very fine grain, resulting in parts with higher density and lower porosity than parts with other laser sintering technologies. You can get detailed surface resolution and thin walls.

The maximum build size on parts build in one piece is 256 x 340 x 360mm. Unfinished parts typically have a smooth surface without visible layers and a stone grey color. Post processing can achieve different effects, from color dyed high glosses and can be sandblasted, smoothed, colored/impregnated and painted. The parts in the pictures is painted black.

Mechanical Properties	Test Method	Metric XY Axis	Metric Z Axis
Tensile Strength	ASTM D638	48 MPa	48 MPa
Tensile Modulus	ASTM D638	1,700 MPa	1,800 MPa
Tensile Elongation at Break	ASTM D638	20%	15%

Thermal Properties	Test Method	Metric
Heat Deflection (HDT) @ 0.45MPa -Z	ASTM D648	175°C
Heat Deflection (HDT) @ 1.82MPa -Z	ASTM D648	95°C



The information and values included in this datasheet, although based on Digital Mechanics knowledge and experience and thus presented in good faith and believed to be accurate, is provided for your guidance only. This information does not release a third party from conducting his own procedures and tests to determine suitability. All guarantees with respect to the information contained herein are explicitly denied.