DIGITAL® MECHANICS
RAPID PRODUCTION SERVICES

METALS
PLASTICS

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 ± 0,1-0,3mm

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 380 x 284 x 380mm. 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 picures is painted

Mechanical Properties	Test Method	Metric XY Axis
Tensile Strength	ASTM D638	48 MPa
Tensile Modulus	ASTM D638	1,700-1,800 MPa
Tensile Elongation at Break	ASTM D638	20%
Flexural Modulus	ASTM D638	1730 MPa
Flexural Strength	ASTM D638	65-70 MPa
Elongation at break	ASTM D638	15-20%
Density of parts	ASTM D792	1.01g/cm³

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

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3D production with brains