



MULTI JET FUSION (MJF) TECHNICAL PACK



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MULTI JET FUSION



TECHNICAL SPECIFICATION

MACHINES

HP

XYZ (mm)

380 x 284 x 380

Layer Thickness

80 Microns

Min. Wall Thickness

1mm | Living Hinge 0.5mm

Tolerances

TPU 90A - $\pm 0.9\%$ (XY) up to $\pm 1.8\%$ (Z)
PA 12 & 11 - $\pm 0.3\%$ (min: ± 0.15 mm)

Materials

AME Nylon PA 12
AME Nylon PA 11
TPU 90A





MATERIAL	NYLON PA 12	NYLON PA 11	TPU 90A
Description	Great for high-density parts, ideal for complex assemblies, housings & watertight applications.	High-impact resistance. Ideal for complex assemblies, strong functional parts & enclosures.	Combines durable elasticity with good wear and abrasion resistance, making it ideal for prototypes and end-use applications.
Available Colours	White & Black	White	Grey
Flexible			x
Rigid	x	x	
High Temp.	x	x	
Shore Hardness	80D	80D	88A
Tensile Strength	48 MPa	52 MPa	9 MPa
Tensile Modulus	1,700 - 1,800 MPa	1,800 MPa	85 MPa
Flexural Strength	65 - 70 MPa	70 MPa	-
Flexural Modulus	1,730 MPa	1,800 MPa	75 MPa
Heat Deflection Temp.	95 - 175° C	54 - 185° C	120° C (Melting Temp.)
Elongation Break	15 - 20%	35 - 50%	220%





Nylon PA 12



Multi Jet Fusion (MJF)
Material Datasheet



A nylon thermoplastic with a high-density. Suitable for creating complex assemblies, prototypes and housings.

Measurement	Value
Shore Hardness	80D
Tensile Strength	48 MPa
Tensile Modulus	1,700 - 1,800 MPa
Flexural Strength	65 - 70 MPa
Flexural Modulus	1,730 MPa
Heat Deflection Temp.	95 - 175° C
Elongation Break	15 - 20%

Actual values may vary depending on build conditions. Our technical team can advise.

Nylon PA 11



Multi Jet Fusion (MJF)
Material Datasheet



A high impact resistant nylon thermoplastic material.
Ideal for strong, functional parts with a high chemical resistance.

Measurement	Value
Shore Hardness	80D
Tensile Strength	52 MPa
Tensile Modulus	1,800 MPa
Flexural Strength	70 MPa
Flexural Modulus	1,800 MPa
Heat Deflection Temp.	54 - 185° C
Elongation Break	35 - 50%

Actual values may vary depending on build conditions. Our technical team can advise.



TPU 90A



Multi Jet Fusion (MJF)
Material Datasheet



A high impact resistant nylon thermoplastic material. Ideal for strong, functional parts with a high chemical resistance.

Measurement	Value
Shore Hardness	88A
Tensile Strength	9 MPa
Tensile Modulus	85 MPa
Flexural Strength	-
Flexural Modulus	75 MPa
Melting Temp.	120° C
Elongation Break	220%

Actual values may vary depending on build conditions. Our technical team can advise.