

# Material Comparison Table



## Multi Jet Fusion (MJF)

Multi jet fusion (MJF) is where a bed of powder material is fused & detailed into layers with more powder being distributed onto the top and repeated.

**\*\*If the material you require isn't listed, please contact our sales team.**

Material		AME Nylon PA 12	AME Nylon PA 11
Description		Thermoplastic Nylon	Thermoplastic Nylon
		Great for high-density parts, ideal for complex assemblies, housings & watertight applications.	High-impact resistance. Ideal for complex assemblies, strong functional parts & enclosures.
Available Colours		Black	White
Properties	Rigid	x	x
	High Temp.	x	
	Shore Hardness	70D	80D
	Tensile Strength	48 MPa	47 MPa
	Tensile Modulus	1,700 MPa	1,647 MPa
	Flexural Strength	65 MPa	44 MPa
	Flexural Modulus	1,730 MPa	0.869 GPa
	Heat Deflection Temp.	175° C	50 - 157° C
	Elongation Break	20%	18 – 21%
Chemical Resistance		Oils, greases, aliphatic hydrocarbons, alkalis.	Oils, greases, aliphatic hydrocarbons, alkalis.
Available Finishes		Textured, matt, satin or gloss surface finish, as well as rubber overmoulding finishes.	



## AME Nylon PA 12

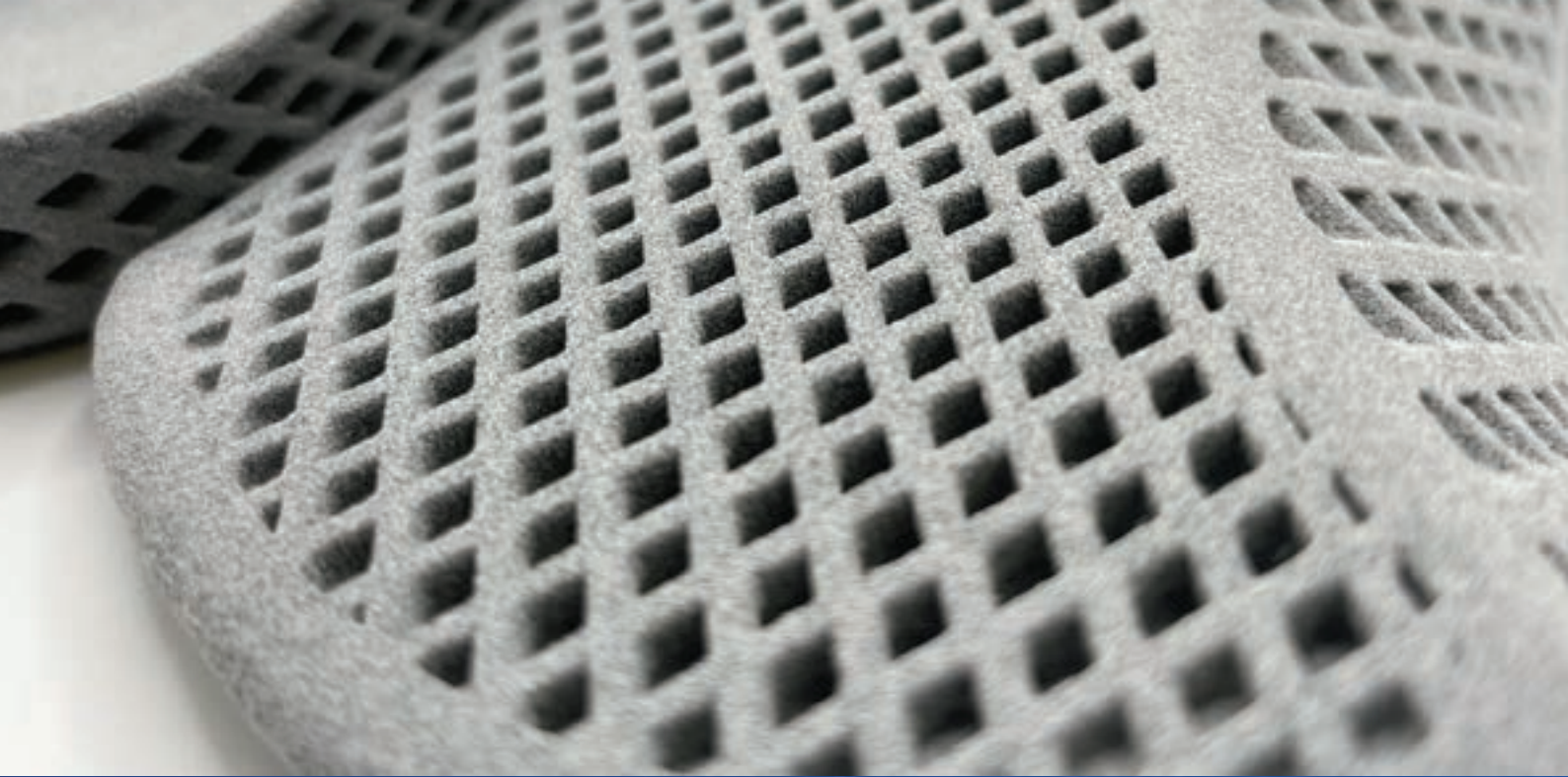


A nylon thermoplastic with a high-density. Suitable for creating complex assemblies, prototypes and housings.

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

Actual values may vary depending on build conditions.  
Our technical team can advise via [info@ame-3d.co.uk](mailto:info@ame-3d.co.uk).





## AME Nylon PA 11



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

Measurement	Value
Shore Hardness	80D
Tensile Strength	47 MPa
Tensile Modulus	1,647 MPa
Flexural Strength	44 MPa
Flexural Modulus	0.896 GPa
Heat Deflection Temp	50 - 157° C
Elongation Break	18 - 21%

Actual values may vary depending on build conditions.  
Our technical team can advise via [info@ame-3d.co.uk](mailto:info@ame-3d.co.uk).



MJF  
Multi Jet Fusion  
Material Datasheet

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**AME-3D**  
Realising in Three Dimensions