

3D printing of plastic elements in MJF technology

Material data sheet

Parameter	Material	Polyamide 12 (PA12)	Polyamide 11 (PA11)	Thermoplastic polyurethane (TPU)
Powder melting point [°C]		187	202	(120-150)
Density of parts [g/cm ³]		1,01	1,05	1,10
Tensile strength (horizontal direction X,Y) [MPa]		48	52	9
Tensile strength (vertical direction Z) [MPa]		48	52	7
Flexural strength (horizontal direction X,Y) [MPa]		70	70	-
Flexural strength (vertical direction Z) [MPa]		70	70	-
Flexural modulus [MPa]		(1700-1900)	1800	85
Hardness		80 (Shore D)	80 (Shore D)	88 (Shore A)

Quote 3D printing of **Polyamide 12** components in our [web app](#).

<https://wycena.spes3d.pl/polymer/en>

Want to 3D print in other metals or polymers? **Let's talk!**

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