

Data Sheet: MJF-TPU01ⁱ

Thermal Properties

Property	Value	Norm
Vicat Softening Temperature [°C] ⁱⁱ	84-96	ISO 306

Mechanical Properties

Property	Value	Norm
Tensile Strength [MPa] ⁱⁱⁱ	7-9	DIN 53504
Tensile Modulus [MPa] ⁱⁱⁱ	75-85	ISO 527
Charpy-Notched Impact Strength [kJ/m ²]	No break	ISO 179-1
Flexural Modulus [MPa]	75	ISO 178
Shore - Hardness [A]	88-90	ISO 7619-1
Elongation at Break [%] ⁱⁱⁱ	150-280	DIN 53504

Physical Properties

Property	Value
Density [g/cm ³]	1.10

Tolerances

Property	Value as built	Unit
Achievable Part Accuracy ^{iii,iv}	+/- 1.5 mm for parts up to 100 mm +/- 2 % for beyond 100 mm	mm/%
Min. Wall thickness	1.0	mm

ⁱ The data from finished parts can deviate from above values depending on the manufacturing process and the component geometry. The data represents our present empirical values. It is incumbent on the person placing the order to examine whether it is suitable for its intended purpose, before using the product. The default postprocessing for this material is blasting.

ⁱⁱ At 50°/h, 50N as per ISO 306

ⁱⁱⁱ Depending on build direction

^{iv} As a result of the part's geometry, strong tensions may cause distortion in the part which may lead to greater deviation.