Data Sheet: FDM-ABS M30i

DEFAULT INFILL: SOLID

THERMAL PROPERTIES

Property	Unit	Value	Norm
Dimensional stability in heat, at 4.6 bar	°C	96	ASTM D648
Dimensional stability in heat, at 18.2 bar	°C	82	ASTM D648
Glass transition temperature T _g	°C	108	DSC (SSYS)

MECHANICAL PROPERTIES

Property	Unit	Value	Norm
Tensile strength ⁱ	МРа	36	ASTM D638
Tensile Modulus ⁱ	МРа	2400	ASTM D638
Elongation at Break ⁱ	%	4	ASTM D638
Flexural Modulus	MPa	2300	ASTM D790
Unnotched IZOD Impact Strength	J/m	283	ASTM D256
Notched IZOD Impact Strength	J/m	139	ASTM D256

PHYSICAL PROPERTIES

Property	Unit	Value	Norm
Density	g/cm³	1.04	ASTM D792
Rockwell hardness		109.5	ASTM D785
Food safety certification		certified	NSF 51

TOLERANCES

Property	Unit	Value As Built
Achievable Part Accuracy ⁱⁱ	mm %	+/- 0.4 mm for parts up to 100 mm +/- 0.4 % for beyond 100 mm
Min. Wall Thickness	mm	1.2

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MAKERVERSE

AVAILABLE FINISHES WITH PROPERTIES DEFINED IN THIS DATA SHEET

1 | STANDARD

As built with support structure removal

AVAILABLE FINISHES FOR SURFACE REQUIREMENTS

2 | SANDED

As built with support structure removal with additional manual sanding to achieve a homogeneous, smooth surface roughness. Surfaces that require sanding should be specified on the technical drawing or in the comment field on the MakerVerse platform.

3 | SEALED

As built with support structure removal with additional sealing to achieve air- and watertight geometries.

4 | SMOOTHED

As built with support structure removal with additional chemical smoothing to achieve a homogeneous, smooth surface roughness.

AVAILABLE FINISHES FOR COLOR REQUIREMENTS

5 | PAINTED

As built with support structure removal with a color of choice applied to the part. Surfaces that require painting and the RAL color code should be specified on the technical drawing or in the comment field on the MakerVerse platform.

AVAILABLE COMBINATIONS OF FINISHES

Many finishes can be combined or tuned to specific requirements. Please select "custom" in the "finish" dropdown on the MakerVerse platform and specify your requirements to request a quote for alternative finishing options.

MAXIMUM BUILD CHAMBER SIZE

914 MM x 610 MM x 914 MM

Warranty/Disclaimer: 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.

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i Depending on build direction

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