



TECHNICAL DATA SHEET

BioFusion

DESCRIPTION

Extrudr BioFusion is a new generation of special bio-based materials developed for designers and makers. The material is offered in vivid colors with a distinctive metallic shine. The raw material is approved according to the REACH-, RoHS-, FDA-Standards.

FEATURES

- Distinctive metallic shine
- REACH-/RoHS-/FDA-Compliant
- Good impact strength
- Low warping tendency
- Recycleable

PROPERTIES

TEST	METHOD	UNIT	VALUE
Tensile modulus (E-Modulus)	ASTM D882	MPa	3200
Tensile strength	ASTM D882	MPa	55
Breaking stress	ASTM D882	%	5
Elongation at break	ISO 527	MPa	41
E-Modulus	ISO 178	MPa	2200
Impact resistance	ASTM D256	kJ/m ²	12 J/m
MFR	ASTM D1238	g/10min	7
Melting temperature	ISO 3146-C	°C	200-210
VICAT A (VST)	ASTM D1525	°C	75*
Shrinking	ASTM D955	%	0.3
Density	ASTM D792	g/cm ³	1.25

*Temperature resistance tested at a minimum wall thickness of 4 mm.

CERTIFICATIONS & ADDITIONAL INFORMATION



For more information, check our [regulatory information](#) and [chemical resistance data sheets](#).

STORAGE AND SHELF LIFE

Store at room temperature (18-27°C / 65-80°F) in a dry place. Make sure it is out of direct heat and sunlight. When stored correctly, this material has a shelf life of 2 years.

	TEMPERATURE RESISTANCE	5
	EASE OF PRINTING	8
	VISUAL QUALITY	10
	LAYER ADHESION	6
	IMPACT RESISTANCE	5
	MAXIMUM STRESS	6
	ELONGATION AT BREAK	5

PRINT SETTINGS

Nozzle	210-220°C
Heatbed	up to 60°C
Adhesive	not required
Speed	20-40mm/s
Cooling	0-30%

Recommended settings for printers with a 0.4mm Nozzle. Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.

NEED HELP?

If you have any question about the product and/or you are experiencing an issue, please contact us via support@extrudr.com