



TECHNICAL DATA SHEET

BIOFUSION

1. DESCRIPTION

BioFusion is a new generation of special bio-based materials, developed for designers and makers. The filament is very easy to process, which means that extraordinary results can be achieved even with little experience. The printed parts have an intense, metallic gloss. BioFusion has a temperature resistance of up to 75°C.

2. FEATURES

- Unique metallic look
- Good impact resistance
- Low warping
- Recyclable

3. PROPERTIES

TEST	METHOD	UNIT	VALUE	PRINT SETTINGS	
Tensile modulus (E-Modulus)	ASTM D882	MPa	3200	Nozzle	200-230°C
Tensile strength	ASTM D882	MPa	55	Heatbed	20-60°C
Breaking stress	ASTM D882	%	5	Adhesive	not required
Elongation at break	ISO 527	MPa	41	Speed	20-40mm/s
E-Modulus	ISO 178	MPa	2200	Cooling	10-30%
Impact resistance	ASTM D256	kJ/m ²	12 J/m	Enclosed Space	no
MFR	ASTM D1238	g/10min	7	Hardened Nozzle	no
Melting temperature	ISO 3146-C	°C	200-210	Max. Volumetric Speed	6 mm ³ /s
VICAT A (VST)	ASTM D1525	°C	75*	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.	
Shrinking	ASTM D955	%	0.3		
Density	ASTM D792	g/cm ³	1.25		

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

4. CERTIFICATIONS & ADDITIONAL INFORMATION



Certifications depend on colors in final product. More info in the additional information sheet.

5. STORAGE AND SHELF LIFE

Store in a dry room at room temperature (18-27°C / 65-80°F). Keep out of direct heat and sunlight.

When stored correctly, this material has a shelf life of 2 years.

Additional info in our regulatory, additional information and chemical resistance data sheets.