

Technical datasheet

woodFill

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Colorfabb developed its own unique PLA blend for 3D printing, namely PLA/PHA. The added recycled woodfibres in this blend make it something special. Your prints will look absolutely amazing and your 3d printer cave will smell like a woodshop! Check out learn.colorfabb.com for a tutorial and slicer profiles on how to print with woodFill.

TYPICAL MATERIAL PROPERTIES

Physical properties	Unit	Value	Method
Density	g/cm ³	1,15	ISO 1183
Modulus of elasticity	MPa	3290	ISO 527
Tensile strength	MPa	46	ISO 527
Tensile strain at tensile strength	%	4,8	ISO 527
Tensile stress at break	MPa	42	ISO 527
Tensile strain at break	%	5,5	ISO 527
Flexural modulus	MPa	3930	ISO 178
Flexural strain at break	%	5	ISO 178
Flexural stress at 3.5% strain	MPa	70	ISO 178
Notched impact strength (Charpy), RT	kJ/m ²	4,2	ISO 179-1/1 eA
Impact strength (Charpy), RT	kJ/m ²	19,0	ISO 179-1/1 eU
Melting temperature	°C	>155	ISO 3146-C

FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0,05	≥ 95%
2,85 mm	± 0,05	≥ 95%

Netto filament weight 600 grams / 1800 grams

GUIDELINE FOR PRINT SETTINGS

Advised 3D printing temperature	195 – 220 °C
Advised bed temperature	50 – 60 °C
Bed surface / modification	Our PLA/PHA compounds perform well on both heated and non-heated build platforms. For those users printing on a cold build platform we advise applying masking tape to the build area. The rough surface of the tape will provide enough adhesion for the first layer to stick and print almost without any warping.
Active cooling fan	0 – 100 %
Advised 3D printing speed	40 – 100 mm/sec

Disclaimer

The product- and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a quality specification. The information only relates to the specific product and the material properties.