

Date of issue: November 28<sup>th</sup>, 2023  
Version: v1.0

## Description

The colorFabb corkFill is a specialized PLA/PHA material with an aesthetically pleasing filament material. The dark brown color complements the woodFill “brother” in a range of specialized 3D printing filaments, to create gorgeous structures and prints.

## Typical Properties

### Mechanical Properties – 3D Printed

	Method	Value	Unit
Youngs Modulus	Tensile, ISO 527-1A	2200	MPa
Tensile Strength	Tensile, ISO 527-1A	30	MPa
Elongation at break	Tensile, ISO 527-1A	7.5	%
Flexural Modulus	Flexural, ISO 178	N/A	MPa
Flexural Strength	Flexural, ISO 178	N/A	MPa
Impact Strength	Charpy Notch, ISO 179	3	kJ/m <sup>2</sup>

### Mechanical Properties – Injection Molded\*

	Method	Value	Unit
Youngs Modulus	Tensile, ISO 527-1A	2500	MPa
Tensile Strength	Tensile, ISO 527-1A	30	MPa
Elongation at break	Tensile, ISO 527-1A	5	%
Flexural Modulus	Flexural, ISO 178	2500	MPa
Flexural Strength	Flexural, ISO 178	11	MPa
Impact Strength	Izod Notch, ISO 180	4	kJ/m <sup>2</sup>
Density	ISO 1183	1.18	g/cm <sup>3</sup>

### Thermal Properties\*

	Method	Value	Unit
Glass Transition Temp.	DSC, ISO 11357	N/A	°C
Melting Temp.	DSC, ISO 11357	N/A	°C
Decomposition Temp.	TGA, ISO 11358	N/A	°C
Vicat Softening Temp.	VST, ISO 306	60	°C
Melt Flow Index	MFI, (210°C/2.16 kg), ISO 1133-A	N/A	g/10min
Melt Flow Index	MFI, (190°C/1.16 kg), ISO 1133-A	N/A	g/10 min

\*These results are obtained from the information provided by the supplier of the raw material

# Technical datasheet colorFabb corkFill

color**Fabb**

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## Filament Specifications

	Unit		
Diameter	mm	1.75	2.85
Max. roundness deviation	mm	± 0.05	± 0.1
Net. Filament weight	g	650	650

## Guideline for print settings

	Unit	
Nozzle Temp.	°C	210-230
Bed Temp.	°C	50-60
Bed / surface modification	-	-
Active cooling fan	%	100
Print Speed	mm/s	40-60

## Notes

The reported properties are an average of a batch of 3D specimens.  
The specimens have been printed in XY plane, using 0.15 mm layer height, 100% infill, 0,4 mm nozzle, 220 °C nozzle temperature and 55°C bed temperature.

## 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.