Technical datasheet

colorFabb CopperFill

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ColorFabb CopperFill is a high quality PLA 3D printing filament, loaded with a high amount of copper particles, especially developed for aesthetic prints. After printing, the objects need to be polished which will result in shiny copper-like objects.

TYPICAL MATERIAL PROPERTIES

Physical properties	Unit	Value	Method
Density	g/cm3	4,0	ISO 1183
Humidity absorption (23ºC,50%RH)	%	0,3	
Tensile Strength	MPa	25	ISO 527
Flexural Strength	MPa	40	ISO 178
Flexural Modulus	MPa	7000	ISO 178
Tensile Elongation@break	%	3-10	ISO 527
Impact Strength (Izod-Un 23ºC)	kJ/m^2	10	ISO 180

FILAMENT SPECIFICATION

Nominal diameter:	Diameter tolerance	Ovality
1,75 mm	± 0,05	≥ 95%
2,85 mm	± 0,10	≥ 95%

Netto filament weight   750 grams / 1500 grams

GUIDELINE FOR PRINT SETTINGS

Advised 3D printing temperature	195 - 220°C
Advised Bed temperature	50-60°C if possible, but not strictly needed
Bed surface / modification	Glass plate, glue stick, polyimide tape, kapton tape
Active cooling fan	On
Advised 3D print speed	40-100 mm/s