

Technical datasheet

colorFabb SteelFill

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ColorFabb SteelFill is a high quality PLA 3D printing filament, loaded with a high amount of stainless steel particles, especially developed for aesthetic prints. After printing, the objects need to be polished which will result in shiny and robust steel like appearance.

TYPICAL MATERIAL PROPERTIES

| Physical properties | Unit | Value | Method |
|----------------------------------|-------------------|-------|----------|
| Density | g/cm ³ | 3,13 | ISO 1183 |
| Humidity absorption (23°C,50%RH) | % | 0,3 | |
| Tensile Strength | MPa | 23 | ISO 527 |
| Flexural Strength | MPa | 30 | ISO 178 |
| Flexural Modulus | MPa | 3000 | ISO 178 |
| Tensile Elongation@break | % | 1-3 | ISO 527 |
| Impact Strength (Izod-Un 23°C) | 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 | 190 - 210°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 printing speed | 40-80 mm/s |

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.