

# Technical datasheet

## PLA Vertigo

color**Fabb**

Date of issue: January 24 , 2023  
Version: v1.0

Get ready to add some cosmic flair to your 3D printing projects with colorFabb's Vertigo filaments! Vertigo filaments have a deep, rich color with a dash of glitter that gives them a unique look. Perfect for creating unique jewelry, figurines and ornaments. PLA vertigo is easy to print with. The Vertigo effect is perfect for hiding the layering of the 3D print and produces a smooth-looking finish.

### TYPICAL MATERIAL PROPERTIES – 3D Printed

| Physical properties                    | Unit  | Value   | Method         |
|----------------------------------------|-------|---------|----------------|
| Tensile modulus                        | MPa   | 3285,79 | ISO 527        |
| Yield strength                         | MPa   | 70,91   | ISO 527        |
| Yield strain                           | %     | 2,52    | ISO 527        |
| Tensile strength                       | MPa   | 70,72   | ISO 527        |
| Tensile strain at tensile strength     | %     | 2,53    | ISO 527        |
| Tensile stress at break                | MPa   | 65,36   | ISO 527        |
| Tensile strain at break                | %     | 3,49    | ISO 527        |
| Flexural modulus                       | MPa   | 2381,63 | ISO 178        |
| Flexural strain at standard deflection | MPa   | 80,13   | ISO 178        |
| Flexural strength                      | MPa   | 96,65   | ISO 178        |
| Flexural strain at flexural strength   | %     | 5,23    | ISO 178        |
| Flexural stress at break               | MPa   | N/A     | ISO 178        |
| Flexural strain at break               | %     | N/A     | ISO 178        |
| Charpy unnotched impact strength       | kJ/m2 | 23,25   | ISO 179-1/1 eU |
| Charpy notched impact strength         | kJ/m2 | 3,97    | ISO 179-1/1 eU |
| Heat Deflection Temperature (HDT)      | °C    | 59,03   | ISO 75         |

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### TYPICAL MATERIAL PROPERTIES – Injection molded

| Physical properties              | Unit  | Value     | Method         |
|----------------------------------|-------|-----------|----------------|
| Density                          | g/cm3 | 1,2 – 1,3 | ISO 1183       |
| Glass transition temperature     | °C    | 55 – 60   | DSC            |
| Tensile modulus                  | MPa   | 3400      | ISO 527        |
| Tensile strength                 | MPa   | 45        | ISO 527        |
| Tensile strain at break          | %     | 6         | ISO 527        |
| Flexural modulus                 | MPa   | -         | ISO 178        |
| Charpy unnotched impact strength | kJ/m2 | -         | ISO 179-1/1 eU |
| Charpy notched impact strength   | kJ/m2 | 7         | ISO 179-1/1 eU |

### FILAMENT SPECIFICATION

| Nominal diameter: | Diameter tolerance | Ovality |
|-------------------|--------------------|---------|
| 1,75 mm           | ± 0.05mm           | ≥ 95%   |
| 2,85 mm           | ± 0.05mm           | ≥ 95%   |

**Netto filament weight** 750g

### GUIDELINE FOR PRINT SETTINGS

|                            |              |
|----------------------------|--------------|
| Nozzle temperature         | 195 – 220 °C |
| Bed temperature            | 50 – 60 °C   |
| Bed surface / modification | Tape or glue |
| Active cooling fan         | 100 %        |
| Print speed                | 40 – 80 mm/s |

### Notes

The reported properties are an average of a batch of 3D printed specimens. The specimens have been printed in XY plane, using 0.15mm layerheight, 100% infill, 0.4mm nozzle, 210 °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.