

Technical datasheet

colorFabb_XT

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colorFabb_XT is made with Eastman Amphora AM1800 and has a unique formulation for 3D Printing that features excellent properties : High strength and very high toughness, Odor Neutral processing, High Tg / improved temp. resistance, Styrene free formulation, FDA food contact compliance, BPA (Bisphenol A) free formulation. It will allow the user to produce 3D printed functional products in a safe way.

TYPICAL MATERIAL PROPERTIES

| Physical properties | Unit | Value | Method |
|---|-------------------|-------|--------|
| Density | g/cm ³ | 1,27 | D 792 |
| Tensile Stress @ Yield | MPa | 50 | D 638 |
| Tensile Stress @ Break | MPa | 28 | D 638 |
| Elongation @ Yield | % | 5 | D 638 |
| Elongation @ Break | % | 110 | D 638 |
| Tensile Modulus | MPa | 1900 | D 638 |
| Flexural Modulus | MPa | 2100 | D 790 |
| Rockwell Hardness, R Scale | - | 108 | D 785 |
| Izod Impact strength, notched @ 23 °C | J/m | 95 | D 256 |
| Izod Impact strength, unnotched @ 23 °C | J/m | NB | D 4812 |
| Deflection Temperature @ 0.455 MPa | °C | 70 | D 648 |
| Deflection Temperature @ 1.82 MPa | °C | 62 | D 648 |

FILAMENT SPECIFICATION

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

Netto filament weight 750 grams / 2200 grams

GUIDELINE FOR PRINT SETTINGS

| | |
|---------------------------------|--|
| Advised 3D printing temperature | 240 – 260 °C |
| Advised bed temperature | 60 – 70 °C |
| Bed surface / modification | For colorFabb_XT we advise to print on a heated bed. After printing, the build plate needs to cool down to about 20-30 C at which point you can remove the printed part. |
| Active cooling fan | 50 – 90 % |
| Advised 3D printing speed | 40 – 70 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.