

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.