Technical datasheet
Lightweight PET-FLEX-MAX

colorFabb

Date of issue: 07-09-2026
Version: v1.0

Description

Typical Properties

	Mechanical Properties – 3D Printed			
	Method	*Value unfoamed @ 210 °C,*	*Value foamed @ 260 °C, flow: 60%*	*Unit*
Tensile modulus	Tensile, ISO 527-1A	397	116	MPa
Tensile Strength	Tensile, ISO 527-1A	19,2	5,6	MPa
Elongation at break	Tensile, ISO 527-1A	317	79,3	%
Flexural Modulus	Flexural, ISO 178	447	NA	MPa
Flexural Strength	Flexural, ISO 178	NA	NA	MPa
Impact Strength	Charpy Notch, ISO 179	15,1	2,7	kJ/m^2

Thermal Properties*

	Method	*Value*	*Unit*
Glass Transition Temp.	DSC, ISO 11357	NA	˚C
Melting Temp.	DSC, ISO 11357	266*	˚C
Decomposition Temp.	TGA, ISO 11358	NA	˚C
Heat Deflection Temp.	HDT-B, ISO 75	NA	˚C
Melt Flow Index	MFI, (210˚C/2.16 kg), ISO 1133-A	NA	g/10min
Melt Flow Index	MFI, (190˚C/1,16 kg), ISO 1133-A	NA	g/10 min

*These results are obtained from the information provided by the supplier of the raw material

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	Value	*Unit*
Diameter	1.75	mm
Max. roundness deviation	± 0,03	mm
Net. Filament weight		g

Guideline for print settings

	Value unfoamed @ 210 °C, flow: 100%	*Value foamed @ 260 °C, flow: 60%*	*Unit*
Nozzle Temp.	210	260	˚C
Bed Temp.	60	60	˚C
Bed / surface modification	Adhesion spray (3D lac)	Adhesion spray (3D lac)	-
Active cooling fan	100	100	%
Print Speed	50	50	mm/s

Notes

The reported properties are an average of a batch of 3D specimens.
The specimens have been printed in XY plane, using 0.2 mm layer height, 100% infill, 0.4 mm nozzle, 210/260 ˚C nozzle temperature and 60 ˚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.

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