

Technical datasheet

Lightweight PET FLEX

color**Fabb**

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	2520	1500	MPa
Tensile Strength	Tensile, ISO 527-1A	35,9	10,3	MPa
Elongation at break	Tensile, ISO 527-1A	16,4	33,2	%
Flexural Modulus	Flexural, ISO 178	2100	523,2	MPa
Flexural Strength	Flexural, ISO 178	68,9	15,21	MPa
Impact Strength	Charpy Notch, ISO 179	1,3	0,6	kJ/m ²

Thermal Properties*

	Method	Value	Unit
Glass Transition Temp.	DSC, ISO 11357	67,6	°C
Melting Temp.	DSC, ISO 11357	NA	°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.