Technical datasheet
PET ULTRA HIGH SPEED

colorFabb

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

Description

General description of the product

Typical Properties

Mechanical Properties – 3D Printed

	Method	*Value*	*Unit*
Youngs Modulus	Tensile, ISO 527-1A	2410	MPa
Tensile Strength	Tensile, ISO 527-1A	64,2	MPa
Elongation at break	Tensile, ISO 527-1A	7,0	%
Flexural Modulus	Flexural, ISO 178	2829	MPa
Flexural Strength	Flexural, ISO 178	107,6	MPa
Impact Strength	Charpy Notched, ISO 179	NA	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	68*	˚C
Melt Flow Index	MFI, (285˚C/2.16 kg), ISO 1133-A	178*	g/10min

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

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Filament Specifications

		Unit
Diameter	1,75	mm
Max. roundness deviation	± 0,03	mm
Net. Filament weight		g

Guideline for print settings

		Unit
Nozzle Temp.	280-320	˚C
Bed Temp.	60	˚C
Bed / surface modification	Adhesion spray (3D lac)	-
Active cooling fan	100	%
Print Speed	500	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, 300˚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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