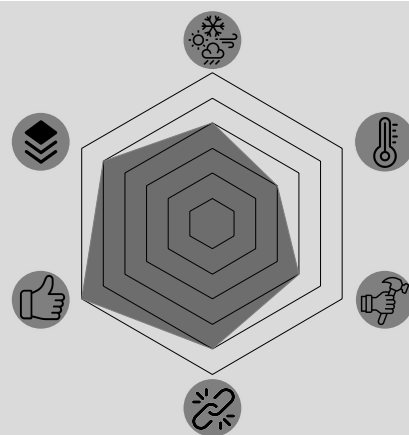


Material Data Sheet

Tough PLA

**MATERIAL
4PRINT**

your filament experts



Description

Tough PLA is made from a renewable biodegradable biopolymer. Compared to normal PLA, it offers higher heat resistance.

Identification

Name	Tough PLA
Chemical Name	Polylactic Acid
Usage	FDM 3D Printing
Manufacturer	Material 4 Print GmbH & Co. KG, Germany

Properties*

Test	Value	Method
Specific gravity	1,22 g/cm ³	ASTM D792
Tensile modulus	2870 MPa	ASTM D638
Breaking stress	40.0 MPa	ASTM D638
Flexural modulus	2410 MPa	ASTM D790
Flexural strength	73.0 MPa	ASTM D790
Izod impact strength	160 J/m (230 J/m)**	ASTM D256
Heat distortion temperature	75.0 °C (85.0 °C)**	ASTM E2092
Glass transition temperature	55.0 - 60.0 °C	ASTM D3418

* 3D printed part with 100% in-fill; **annealed at 110°C for 15min

If you have any further questions about the product or problems in its use, please contact info@material4print.de



Certificate



Certification depends on colors in the final product. More info in the additional information sheet.

Storage

Store at room temperature, out of direct heat and sunlight and in a dry place.

Print Settings

Nozzle Temperature: 205-230 °C
Bed Temperature: 40-65 °C

These data were taken from the raw material manufacturer.

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Contact: info@material4print.de