Material Data Sheet Tough PLA



your filament experts



Layer adhesion



Weather resistance



Easy to print



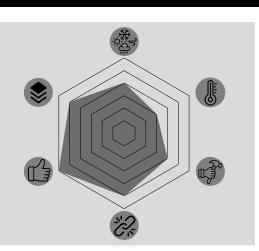
Heat resistance



Tensile strength



Impact resistance



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/cm³	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

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



Certificate REACH ROHS ROHS 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: 200-225

 $^{\circ}$ C

Bed Temperature: 0-60 °C

These data were taken from the raw material manufacturer.

Contact: info@material4print.de

^{* 3}D printet part with 100% in-fill; **annealed at 110°C for 15min