

Material Data Sheet



PLA

Description:

PLA is made from a renewable biodegradable biopolymer.

The type of 3D printing filament is optimized for FDM/FFF 3D printing technology.

Storage:

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

Identification:

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

Properties:

Test	Value	Method
Specific Gravity	1,24 g/cm ³	ASTM D792
Elongation at Break	160%	ASTM D882
Tensile Strength	60 MPa	ASTM D882
Tensile Modulus	3610 MPa	ASTM D882
Flexural Modulus	3830 MPa	ASTM D790
Melting Point	145 - 160 °C	ASTM D3418
Heat Distortion Temperature	55 - 60 °C	ASTM D648
Flammability	-	-

Print Settings:

Nozzle Temperature	190-225 °C
Bed Temperature	0-60 °C

Colors (ca. RAL) :

● Graualuminium (9007)	● Telemagenta (4010)
● Anthrazitsilber (7015)	● Perlviolett (4011)
● Schwarz (9005)	● Perlblau (5010)
○ Signalweiß (9003)	● Himmelblau (5015)
● Natur	● Verkehrsgelb (1023)
● Signalblau (5005)	● Perlgold (1036)
● Reinrot (3028)	● Kupfer (8011)
● Leuchtrot (3024)	● Elfenbein (1015)
● Grün (6032)	● Leuchtorange (2005)
● Gelbgrün (6018)	● Staubgrau (7037)
● Eisengrau (7011)	● Signalbraun (8002)

Certificate:



These data were are taken from the raw material manufacturer.