

PLA

PLA is a tough, easy to use high grade PLA type of filament, ideal for 3D printing. Slightly modified, the filament retains the typical features of PLA, but makes it tougher and less brittle. Due to a low shrinkage factor PLA will not deform after cooling. Poly Lactic Acid is a biodegradable plastic made from renewable natural resources and one of the most popular materials for 3D printing.

Material features:

- Tougher and less brittle compared to regular PLA
- Easy to print at low temperature
- Low warping
- Biodegradable
- Limited smell

Filament specs.

Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,24 g/cc
MFR 210°C/2,16 kg	ISO 1133	9,56 gr/10 min
Tensile Strength at Yield (MPa)	ISO 527	70 Mpa
Strain at yield	ISO 527	5%
Strain at break	ISO 527	20%
E-Modulus	ISO 527	3120 Mpa
Impact strength - Charpy method 23°C	ISO 179	3,4 kJ/m2
Moisture absorption	ISO 62	1968 ppm
Printing temp.	DF	205±10°C
Melting temp.	ISO 11357	115±35°C
Vicat softening temp.	ISO 306	60°C
Glass transition temp.	ISO 11357	57°C

Additional info:

Due to its low tendency to warp PLA can also be printed without a heated bed. If you have a heated bed the recommended temperature is ± 35-60°C.

PLA can be used on all common desktop FDM or FFF technology 3D printers.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.