

PLA

TECHNICAL DATA SHEET

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.

Features:

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

Colours:

Check the website for available colours.

Filaments specifications

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
Yield stress	ISO 527	69,8 Mpa
Strain at yield	ISO 527	4,8%
Strain at break	ISO 527	19,5%
Tensile modulus (E-Modules)	ISO 527	3120 Mpa
Impact strength - charpy method 23°C	ISO 179	3,4 kJ/m2
Moisture absorption	ISO 62	1968 ppm
Printing temperature	ddd drop	220-240°C
Melting temperature	ISO 11357	77-146°C
Vicat softening temperature	ISO 306	60°C
Glass transition temperature	ISO 11357	57°C

Additional info:

Recommended temperature for heated bed is ±60°C.

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