

PLA Filament

PLA - POLYLACTIC ACID

PLA (Polylactic Acid) is one of the two most commonly used desktop 3D printing filaments (with the other being ABS filament). It is the "default" recommended material for many desktop 3D printers, and with good reason - PLA is useful in a broad range of prin ting applications, has the virtue of being both odorless and low-warp, and does not require a heated bed.

PLA filament is also one of the more eco-friendly 3D printer materials available; it is made from annually renewable resources (corn-starch) and requires less energy to process compared to traditional (petroleum-based) plastics. Outside of 3D printing, PLA plastic is often used in food containers, such as candy wrappers, and biodegradable medical implants, such as sutures. Our PLA filaments for 3D Printing are available in a wide range of colors in both 1.75mm and 2.85mm.

The latest range of PLA filaments have been developed by our expert engineers utilizing the latest technology and high quality prime virgin raw material.

OPTIONS:

Size: 1.75 mm -/+ 0.03 mm

2.85 mm -/+ 0.03 mm

Color: Full Color Range (Special Colors By Order)

Packaging: 0.5 Kg Spools

1.0 Kg Spools6.0 Kg Spools

FEATURES:

Lower melting point for easier printing
Free from harmful or hazardous materials
Lower shrinkage rate
High rigidity with minimal flex
Produces higher quality prints
Proper for printing large parts with almost no warping
Can be printed without heated bed.
No chemical odors produced during printing

SPECIFICATIONS:

Filament Material: PLA

Specific Gravity: 1.25 gr/cm³

Size: 1.75 mm -/+ 0.03 mm

2.85 mm -/+ 0.03 mm

Printing Information: Extruder: 190 – 220 °C

Bed: 40 - 60 °C (Only for big parts)

Working Temperature: Starts losing mechanical strength at 60 °C

PLA Filament

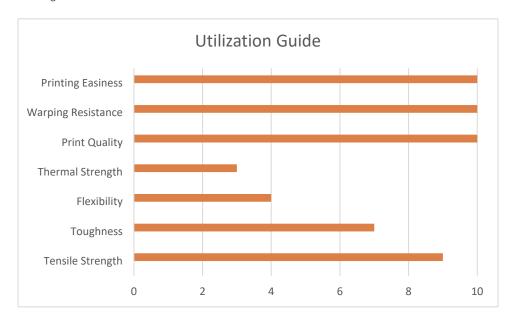
ENGINEERING PROPERTIES:

Properties	Value	Standard
Physical P	roperties	
Density (g/cm³)	1.25±0.05	GB/T1033-1986
Melt Index, g/10min (190°C/2.16kg)	4-7	GB/T3682-2000
Melting Point (°C)	175-179	GB/T19466.3-2004
Glass Transition Temperature (°C)	60-62	GB/T19466.2-2004
Mechanical	Properties	
Tensile Strength (MPa) ≥	55	GB/T1040-1992
Elongation at Break (%)≥	100	GB/T1040-1992
Impact Strength (KJ/m², Izod) ≥	3.5	GB/T1043-1992

UTILIZATION GUIDE:

(Comparative, Out of 10)

Tensile Strength	9
Toughness	7
Flexibility	4
Thermal Strength	3
Print Quality	10
Warping Resistance	10
Printing Easiness	10



PLA Filament

CERTIFICATES:

Management: BS EN ISO 9001:2015
Quality: CE (CE–2924)
Environment: RoHS (UQ-5724)