

MATERIAL CARD 05

PLA

Poly(lactic acid) (PLA) is a bioactive, biodegradable thermoplastic. Sourced from renewable resources like corn starch or sugarcane, PLA exhibits lower warping, making it suitable for applications like additive layer manufacturing (ALM).

Benefits

PLA offers high strength, stiffness, and excellent surface finish. As an environmentally friendly option, it's ideal for applications where high heat and chemical resistance are not paramount.

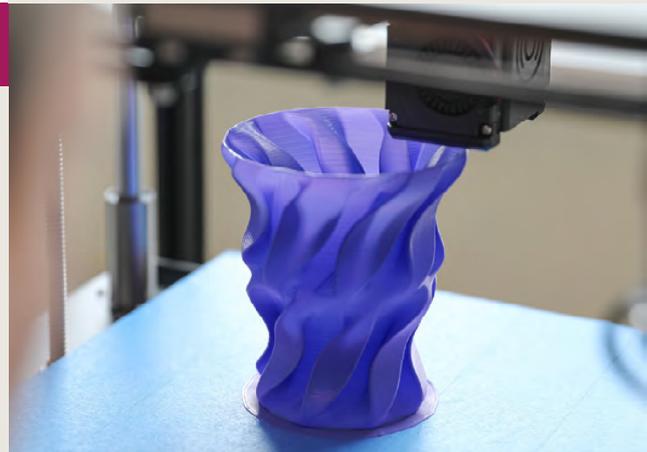


Physical & Mechanical Properties

Property	Typical Value
Tg (°C)	61
Melt Temp (°C)	151
Density (kg/m ³)	1248
Yield strength (MPa)	34.7
Bio-Compatibility	Yes

	Good	Average	Poor
Chemical Resistance			■
UV Stability			■
Reusability	■		
Impact Resistance		■	
Fire Performance			■

To discuss your next additive manufacturing challenge, call our experts on **03330 150 563**



Typical Applications

- Conceptual rapid prototyping
- Functional rapid prototyping

Industries

- Aerospace
- Defence
- Space
- Rail
- Marine
- Nuclear
- Automotive

Colour Options

- Black
- White
- Blue
- Red
- Yellow
- Nectarine
- Ivory
- Green
- Grey
- Natural

Visit our website

