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PLA 3D Filament Data Sheet

Polylactide (PLA)

Polylactide, also known as Polylactic Acid, is a thermoplastic synthesized from organic sugars. PLA has become the most common material for 3D filaments due to its eco-friendliness and ease of use. PLA maintains several desirable properties for 3D printing such as a low melting temperature and glass transition temperature. As a result, PLA offers a high level of detail and exceptional print quality.

Mechanical Properties		Test Method
Tensile Strength @ Break, PSI	7700	ASTM D638
Yield Strength, PSI	8700	ASTM D638
Tensile Elongation, %	6.0	ASTM D638
Notched Izod Impact, ft-lb/in	0.3	ASTM D256
Size Specifications		
Nominal Outer Diameter, mm	1.75/2.88	-
OD Tolerance, mm	±0.05	-
Ovality, mm	< 0.05	-

Applications

- General purpose 3D printing
- Fine detail prints
- Applications where strength is not critical

Recommended Printer Settings

- Extruder Temperature: 205-215 °C
- Printing Speed: 50-90+ mm/s
- Bed Temperature: 50-60 °C
- (Heated bed is not necessarily required)
- Bed Adhesion: Blue Painters Tape

Additional Information

- Sizes Available: 1.75/2.88mm
- (Custom Sizes Available)
- Custom packaging methods available upon request
- Spool Weight: 1 kg (2.2 lbs.)
- (Custom Sizes Available)
- All filaments are sealed with desiccants

Regulatory Compliance

- RoHS
- REACH
- California Proposition 65

Disclaimer:

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