

## PLA 3D Filament Data Sheet

### Poly lactide (PLA)

Poly lactide, also known as Polylactic Acid, is a biodegrade 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 Izon Impact, ft-lb/in	0.3	ASTM D256
Size Specifications		
Nominal Outer Diameter, mm	1.75/2.88	-
OD Tolerance, mm	±0.08	-
Ovality, mm	< 0.05	-

### Applications

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

### Recommended Printer Settings

- Extruder Temperature: 190-230 °C
- Bed Temperature: 60-70 °C
- Printing Speed: 50-90+ mm/s
- Bed Adhesion: Blue Painters Tape

### Additional Information

- Biodegradable
- Spool Weight: 1kg., 1lb., 5lb., and 10lb
- Standard Sizes Available: 1.75/2.88mm
- All filaments are sealed with desiccants
- Custom packaging methods available upon request

### Regulatory Compliance

- RoHS
- Toy Safe
- REACH

### Disclaimer:

The above information is provided in good faith. It is solely the customer's responsibility to determine if the product and information in this document are appropriate for the customer's end use. Customers are always advised to consult their 3D printer manufacturer before using Toner Plastic's filaments.