

# tonerplastics

## PLA 3D Filament Data Sheet

### Poly lactide (PLA)

Poly lactide, 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: 190-230 °C
- Printing Speed: 50-90+ mm/s
- Bed Temperature: 60-70 °C
- 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:

The above information is provided in good faith. Toner Plastics assumes no obligation or liability for the accuracy or completeness of the information supplied in this document. It is solely the customers responsibility to determine if the product and information in this document are appropriate for the customers end use. Responsibility for the use, storage, handling, and disposal of the products herein is that of the purchaser or end user.



Proudly manufactured with Ingeo™ PLA.

**CURBELL**  
PLASTICS

1-888-CURBELL

[www.curbellplastics.com](http://www.curbellplastics.com)

Curbell Plastics is a proud supplier of Toner Plastics materials.