

BigRep's rPLA is a well-rounded filament ideal for large-format rapid prototyping for consistent results at an affordable price.

Filament Properties

Material	Polylactic Acid
Diameter	2.85 mm
Density (ISO 1183)	1.24 g/cm ³

Physical & Mechanical Properties

Tensile Strength (ISO 527)	53 MPa
Tensile Modulus (ISO 527)	3400 MPa
Flexural Strength (ISO 178)	61 MPa
Flexural Modulus (ISO 178)	3800 MPa
Impact Strength, Notched (ISO 179)	2 kJ/m ²

Thermal Properties

HDT A - 1.8 MPa (ISO 75)	52 °C
HDT B - 0.45 MPa (ISO 75)	54 °C
Glass Transition Temperature (T_g) (DSC)	55 °C

Recommended Printing Conditions

Nozzle Temperature	200 - 230 °C
Print Bed Temperature	50 - 70 °C
Fan Speed	75 - 100 %

Other Information

Drying Recommendations	50 °C for 4 - 6 hours
Reach Compliant	Yes
RoHS Certified	Yes
FDA Compliant	No

The technical data provided herein are for general information and comparison purposes only. Mechanical strength and other properties of parts printed with these materials can vary greatly depending on print settings, user experience, and environmental conditions. We do not guarantee the suitability, safety, or performance of printed parts for any specific purpose. It is the responsibility of the user to test and determine whether the printed parts meet the requirements for their intended use. We do not accept any liability for damage, injury, or loss resulting from the use of this material or from parts made with this material. Please review all available safety information and perform your own testing before using this product in any application.