



# rPLA

Recycled origin, unrivalled quality

## Description

Short for polyactic acid, PLA is a bioplastic derived from plant-based sources. However, PLA production is depleting natural resources faster than they can be replenished. To address this issue, we have pioneered rPLA 3D printer filament, still boasting the same great PLA features such as; Low warping, limited smell and premium print quality – but with the added benefit of being produced from factory waste streams as opposed to virgin pellets. All users of rPLA can feel good about reducing environmental impact, whilst being confident that the print quality will still be one of the best on the market!

		Test Method	Typical Value
<i>Physical Properties</i>	<b>Specific Gravity</b>	ISO 1183	1.24 g/cc
	<b>Melt Flow Rate</b>	ISO 1133	9.56 gr/10 min
	<b>Moisture Absorption</b>	ISO 62	1968 ppm

		Test Method	Typical Value
<i>Mechanical Properties</i>	<b>Impact Strength</b>	ISO 179	3.4 kJ/m <sup>2</sup>
	<b>Yield Stress</b>	ISO 527	69.8 MPa
	<b>Strain at Yield</b>	ISO 527	4.8%
	<b>Strain at Break</b>	ISO 527	19.5%
	<b>E-Modulus</b>	ISO 527	3120 MPa

		Test Method	Typical Value
<i>Thermal Properties</i>	<b>Printing Temperature</b>	-	190-220°C
	<b>Melting Temperature</b>	ISO 11357	77-146°C
	<b>Viscat Softening Temperature</b>	ISO 306	60°C

	Diameter	Tolerance	Roundness
<i>Filament Specifications</i>	<b>1.75mm</b>	± 0.05mm	>95%
	<b>2.85mm</b>	± 0.05mm	>95%