

## Features

- Tougher and less brittle compared to regular PLA
- Easy to print at low temperature
- Low warping
- Biodegradable unlike ABS filament
- -PLA is derived from crops such as corn and sugar cane
- Limited smell
- Good shelf life

## RS PRO 3D Printing Materials

RS Stock No.: 832-0273



RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

Poly Lactic Acid (PLA) is a biodegradable plastic made from renewable natural resources and one of the most popular materials for 3D printing. Plastics such as PLA are the most popular 3D printing material due to its simplicity, dimensional accuracy and low cost. PLA can be printed at a low temperature and does not require a heated bed and is one of the most environmentally friendly filaments available.

125-4336 - Black

125-4338 - White

125-4340 - Blue

125-4342 - Red

125-4344 - Silver

## General Specifications

Printing Technology	FDM
Printing Material	PLA
Machine Specific	No
Colour	White
For Use With	Common Desktop 3D Printers
Material Type	PLA
Application	General printing, Hobbyist Medical, Education, Prototyping, Jewellery, Architecture models, Aviation, Engineering, Automotive

## Mechanical Specifications

Diameter	2.85mm
Weight	1kg
Specific gravity	1,24 g/cc
MFI	6,0 g/10 min
Tensile strength	110 MPa (MD) / 145 MPa (TD)
Elongation at break	160% (MD) / 100% (TD)
Tensile Modulus	3310 MPa (MD) / 3860 MPa (TD)
Impact strength	7,5 KJ/m <sup>2</sup>
Tolerance	± 0.10mm
Roundness	≥ 95%

## Operation Environment Specifications

Printing Temperature	180 °C -210°C
Melting Temperature	210°C ± 10 °C
Melting Point	145 °C -160°C
Vicat Softening Temperature	± 60°C
Storage Temperature	15 °C -25°C
Printing Temperature	180 °C -210°C
Melting Temperature	210°C ± 10 °C

## Approvals

Compliance/Certifications	ASTM D1505, ASTM D882,ASTM D3418,ISO 306, 2011/65/EU and 2015/863
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