

# PLA



Polylactic acid or polylactide called PLA is a thermoplastic aliphatic polyester made of renewable resources like corn or starch. PLA has a relative low melting temperature, 175°C, and is a very hard material. You can use it for the most common prints and is easy to print with.



- Transitions quickly from liquid to solid;
- Low warping;
- Easy flow;
- Dimensional stability;
- Sticks to almost any bed surface;
- Biodegradable with pleasant, sweet odor.

Available in a wide variety of colors. For non-stock colors there is a minimum quantity of 30 kg.

## Physical properties

Specific gravity	ASTM D1505	1,24 g/cc
MFI	-	6,0g /10 min
Tensile strength	ASTM D882	MD 16 kpsi / TD 21 kpsi
Elongation at break	ASTM D882	160% (MD) 100% (TD)
Tensile modulus	ASTM D882	480 MPa (MD) 560 MPa (TD)
Impact strength	-	2,5 joules

Tolerance +/- 0.05 mm (1.75 mm), 0.10 mm (2.85 mm)  
Heated bed temp. +/- 35-60 °C  
Storage Cool, dry +/- 20 °C away from UV light

## Thermal properties

Printing temp.	-	190 - 210 °C
Melting temp.	-	210 °C +/- 8 °C
Melting point	ASTM D3418	145 - 160 °C
Vicat softening temp.	ISO 306	+/- 60 °C



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