



PrintaMent PLA

General

PLA (Polylactic acid) is a biodegradable 3D Print material derived from crops which is non-toxic and develops no unpleasant smell during printing. It is also one of the most environmentally friendly filaments on the market. It has a good interlayer adhesion and low shrinkage and has a slight shine to its appearance when the print is done. It can be printed at a low temperature and does not require a heated bed. This makes it the default filament choice for a lot of 3D prints

Features

- Tougher and less brittle compared to regular PLA
- Easy to print at low temperature
- Low warping
- Biodegradable
- Limited smell

Colors

Black - White - Yellow - Orange - Red - Gleaming Pink - Blue - Dark Blue - Lime Green - Bronze - Silver Flash Orange - Acid Green - crystal - Glow in the Dark

Recommended print settings

- Printing Temperature: 180-220°C
- Heated Bed: not required with PrintaFix | >65°C
- Enclosure: not required
- Adhesion Agent: PrintaFix
- Part Cooling Fan: 100%
- Nozzle: standard brass (hardened for glow in the dark)
- Print speed: up to 70mm/s
- Layer height: >0.1mm
- Flow Rate: 100%

Additional Information

All PrintaMent Filaments are produced in Europe using modern production standards: During production, the latest in laser measuring technology is used to ensure that you will receive a spool of filament with a very tight diameter and roundness tolerance. Most materials offer

a colourful selection of many beautiful colours which gives you a lot of options to perfect and individualize prints. PrintaMent is available in the diameters 1.75mm and 2.85mm and comes on a transparent spool which makes it easy to see how much filament is left on the reel. The PrintaMent Box has an indication window on how much Filament is left on the reel. Store PrintaMent cool and dry away from UV light to enhance the shelf life.

Technical Data

Dimensions

Size	Tolerances	Roundness
1,75mm	±0,05mm	≥95%
2,85mm	±0,10mm	≥95%

Physical Properties

Description	Typical Value
Specific gravity	1,24g/cc
MFI	6g/10ml
Tensile strength	110MPa (MD) 145MPa (TD)
Elongation at break	160% (MD) 100% (TD)
Tensile modulus	3310MPa (MD) 3860MPa (TD)
Impact strength	7,5kJ/m ²

Thermal Properties

Description	Typical Value
Printing temp.	180-210°C
Melting temp.	210°C ± 10°C
Melting point	145-160°C
Vacant softening T.	±60°C