

## MakerPoint PLA

MakerPoint PLA filament is a tough, easy to use high grade PLA ideal for 3D printing. Its unique material compound makes it tougher and less brittle than standard PLA filaments. Because it has a low shrinkage factor MakerPoint PLA will not deform after cooling.

PLA (Poly Lactic Acid) is a biodegradable plastic made from renewable natural resources, it is also one of the most popular materials for 3D printing.

### Features:

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

Dimensions		
Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Colors
MakerPoint PLA is available in a large selection of bright colors. Special colors are available upon request with a minimum order quantity of 20kg.

3D-printing	
Description	Typical value
Printing technology	FFF
Printing temp.	210-220°C
Heated bed temp.	± 35-60°C (when available)
Cooling fan	100%
Flow Rate	100%

Physical properties		
Description	Test method	Typical value
Density	ASTM D1505	1,24 g/cc
MFI	-	6,0 g/10 min
Tensile strength	ASTM D882	110 MPa (MD) 145 MPa (TD)
Elongation at break	ASTM D882	160% (MD) 100% (TD)
Tensile modulus	ASTM D882	3310 MPa (MD) 3860 Mpa (TD)
Impact Strength	-	7,5 KJ/m <sup>2</sup>

### Thermal properties

Last change: 2014-03-31

The data correspond to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice as part of MakerPoints continuous development and improvement processes.

Description	Test method	Typical value
Melting temp.	-	210°C ± 10°C
Melting point	ASTM D3418	145-160°C
Vicat softening temp.	ISO 306	± 60°C

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