PLA Filament

PLA is a tough, easy to use high grade PLA type of filament, ideal for 3D printing. Slightly modified, the filament retains the typical features of PLA, but makes it tougher and less brittle. Due to a low shrinkage factor PLA will not deform after cooling. Poly Lactic Acid is a biodegradable plastic made from renewable natural resources and one of the most popular materials for 3D printing.

PLA Features:

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

Colours:



PLA is available from stock in a large selection of bright colours of which you see a selection beneath. For non stock colours a minimum of 40 kg \pm 10 % is required.

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Size	ø tolerance	Roundness
1.75mm	ø 0,05 mm	95 %
2.85mm	ø 0,10 mm	95 %

• Physical Properties

Testmethod	Typical value
ASTM D1505	1,24 g/cc
-	6,0 g/10 min
ASTM D882	110 MPa (MD)n145 MPa (TD)
ASTM D882	160 % (MD)n100% (TD)
ASTM D882	3 310 MPa (MD)n3860 MPa (TD)
-	7,5 KJ/m2
	ASTM D1505 - ASTM D882 ASTM D882 ASTM D882

Created by Torvast from <u>T-CORE.FR</u>



• Thermal Properties

Description	Testmethod	Typical value
Printing temp.	-	$180 - 210^{\circ}$ C
Melting temp.	-	$210^{\circ}\text{C} \pm 10^{\circ}\text{C}$
Melting point	ASTM D3418	145-160°C
Vicat softening temp.	ISO 306	± 60°C

Additional info:

Due to its low tendency to warp PLA can also be printed without a heated bed. If you have a heated bed the recommended temperature is \pm 35-60°C.

PLA can be used on all common desktop FDM or FFF technology 3D printers.

Storage:

Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

Where to buy:

https://amzn.to/2GSyd2a

