

3DP PLA

3D Platform PLA is a tough, easy-to-use, high grade PLA filament, ideal for 3D printing. Slightly modified, the filament retains the typical features of PLA while staying 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.

Features:

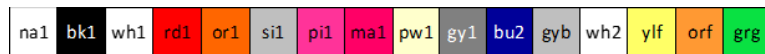
- Tougher and Less Brittle
- Easy to Print at Low Temps
- Low Warping
- Biodegradable
- Limited Odor

Normal Stock:

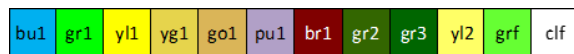
- 2.85 dia (+/- 0.10mm)
- Roundness $\geq 95\%$
- 2.2 kg (5 lb.) spools

Contact 3DP for other spool sizes and diameter filaments: Diameters available - 1.75mm, 4.5mm, 6mm

Colors normally in stock:



Check stock on these colors prior to order:



Material Properties		
Description	Test Method	Typical Value
Specific Gravity	ISO 1183	1.24 g/cc
MFR 210°C/2.16 kg	ISO 1133	9.56 gr/10 min
Yield Stress	ISO 527	69.8 mpa
Strain at Yield	ISO 527	4.8%
Strain at Break	ISO 527	19.5%
E-Modulus	ISO 527	3120 mpa
Impact Strength - Charpy Method 23°C	ISO 179	3.4 kJ/m ²
Moisture Absorption	ISO 62	1968 ppm
Printing Temp. Range	DF	180 - 210°C
Melting Temp.	ISO 11357	77 - 146°C
Vicat Softening Temp.	ISO 306	60°C
Glass Transition Temp.	ISO 11357	57°C

3DP WorkSeries Machine Settings	
Description	Setting
Volcano Extruder Default Print Speed	80 mm/s
HFA Extruder Default Print Speed	100 mm/s
Unspecified Machine Default Print Speed	60 mm/s
Extruder Temp. (Starting Point)	200°C
Heated Build Platform Temp.	80°C
Bed Prep.	Beer Hairspray
Extrusion Multiplier/Flow Rate	100%
Fan Speed	100%
Active Cooling (Fan)	Y
Retraction Distance	1.10 mm

Additional info:

Due to its low tendency to warp, 3D Platform PLA can also be printed without a heated bed.

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

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