

NORMAL PLA FILAMENT

END USE

PLA (PolyLactic Acid) is a biodegradable plastic, made using cornstarch or sugarcane. It is a renewable raw material which is much more ecologically friendly and safer than ABS plastics. PLA plastics are more flexible as it does not require as high temperatures to manipulate the material; therefore a heated bed is not required (compared to ABS).

PHYSICAL PROPERTIES

Product Code(s)	PLAN-GREEN-1000, PLAN-SKIN-1000, PLAN-RED-1000, PLAN-GRAPH-1000, PLAN-BLACK-1000, PLAN-BRNZ-1000, PLAN-GREY-1000, PLAN-PURP-1000, PLAN-DBLUE-1000, PLAN-GRASSG-1000, PLAN-BLUE-1000, PLAN-YEL-1000, PLAN-PINK-1000, PLAN-ORANGE-1000, PLAN-SKYBLUE-1000, PLAN-NAT-1000, PLAN-PWHT-1000, PLAN-MWHITE-1000
Colour(s)	Green, Skin, Red, Graphite, Black, Bronze, Grey, Purple, Dark Blue, Grass Green, Blue, Yellow, Pink, Orange, Skyblue, Natural, Paper White, Milk White
Specific Gravity	1.24 (Test Standard - ASTM D792)
MFR, g/10min(210°C,2.16kg)	14 (Test Standard - ASTM D1238)
Relative Viscosity	55-60 (Test Standard - ASTM D3418)
Crystalline Melt (°C)	145-160 (Test Standard - ASTM D3418)
Glass Transition (°C)	55-60 (Test Standard - ASTM D3418)
Tensile Yield Strength (Mpa)	62 (Test Standard - ASTM D638)
Tensile Elongation (%)	3.5 (Test Standard - ASTM D638)
Notched Izod Impact (J/m)	16.0 (Test Standard - ASTM D256)
Flexural Strength (MPa)	108 (Test Standard - ASTM D790)
Flexural Modulus(MPa)	3600 (Test Standard - ASTM D790)
Heat Distortion (°C)	55 (Test Standard - E2092)



APPLICATION

PLA comes in many shades and styles, making it ideal for a wide range of applications. Whether you're looking for vibrant colours or unique blends, PLA filament is an easy-to-use and aesthetically pleasing material.

PRINTER SETTINGS

Spool Net Weight: 1kg	Print Temperature: 190-220°C	Hot Bed Temperature: 0-50°C
Diameter: 1.75mm ± 0.05mm	Print Speed: 50-110mm/s	