

## SILK 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)	PLA-SILYLO-1000, PLA-SILCPR-1000, PLA-SILDBL-1000, PLA-SILGLD-1000, PLA-SILGRN-1000, PLA-SILLVD-1000, PLA-SILSBL-1000, PLA-SILSGY-1000, PLA-SILWHT-1000
Colour(s)	Copper, Dark Blue, Gold, Green, Lavender, Silver Grey, Sky Blue, White, Yellow
Deflection Temperature Under Load (°C)	51.3 (Test Standard - ASTM D648-18)
Density (g/cm <sup>3</sup> )	1.24 (Test Standard - ASTM D792-13)
Tensile Strength (MPa)	46.9 (Test Standard - ISO 527-1:2012 / ISO 527-2:2012)
Nominal Tensile Strain at Break (%)	57 (Test Standard - ISO 527-1:2012 / ISO 527-2:2012)
Tensile Stress at Yield (MPa)	46.9 (Test Standard - ISO 527-1:2012 / ISO 527-2:2012)
Flexural Strength (MPa)	61.7 (Test Standard - ASTM D790-17)
Flexural Modulus (MPa)	2280 (Test Standard - ASTM D790-17)
Melt Mass Flow Rate (g/10min)	30.1 (Test Standard - ISO 1133-1:2011)
Notched Izod Impact (J/m)	108 (Test Standard - ASTM D256-10)



### APPLICATION

The Silk PLA Filament is highly recommended for making decorative objects because of its unique shiny and silky look. Like all our Filament, this has a very strong adhesion to the print bed. The end results will amaze you!

### PRINTER SETTINGS

Spool Net Weight: 1kg	Print Temperature: 190-220°C	Hot Bed Temperature: 0-50°C
Diameter: 1.75mm ± 0.05mm	Print Speed: 20-50mm/s	