

3D Printing Filament PLA Silk 1.75mm



DESCRIPTION

PLA Silk Filament is a premium 3D printing material designed to deliver a luxurious, glossy finish with exceptional ease of use. Its silky texture and vibrant colour options make it ideal for creating visually striking models that stand out with a high-end aesthetic. Whether you are printing decorative pieces, artistic sculptures, or detailed prototypes, PLA Silk ensures smooth surface quality and excellent transparency, giving your creations a gleaming, professional look. PLA Silk filament is eco-friendly and biodegradable, making it also a responsible choice for both professional and home use.

DISTINCTIVE FEATURES

- Glossy silky smooth finish
- High tenacity
- Low warping
- High tensile strength
- Medium impact strength
- High bending strength
- Heat resistant
- Biodegradable
- Eco-friendly

APPLICATIONS

Ideal to use for concept models, artistic sculptures, and functional parts, this filament supports a broad spectrum of uses across areas including education, design, engineering and various industries.

PLA

1.75mm

1kg



GENERAL SPECIFICATION

Series	3D Printing Filament
Type	PLA Silk
Spool Size	1kg
RoHS	
Reach	
FDA Approved	



MATERIALS

Material	PLA
Finish	Smooth, Glossy
Colour	See Part Number Table

Main Filament Property Parameters	
Filament Type	PLA Silk
Water Absorbion (%) Equalibrium in water, 23°C)	<0.3
Tensile Strength (MPa)	45-49
Flexural Strength (MPa)	69-75
Modulus of Elasticity (MPa)	1000-1100
Izod Notched Impact ((kg/m²) Strength (IZOD, 23°C)	4.5-5
Elongation at Break (%)	13.5-15.5
Heat Deflection Temperature (°C) (HDT@0.455MPa (66psi))	53
Melt Flow Rate	4-8g/10min
Density	1.25-1.26g/cm²



ENVIRONMENTAL/OPERATING SPECIFICATION

Printing Parameters	
Printing with enclosure recommended	-
Nozzle Operating Temperature °C	190-240
Bed Operating Temperature °C	25-60
Nozzle Diameter	Ø0.4/0.6mm (Ø0.4mm recommended)
Cooling Fan	50-100%
Retraction Speed	30-50mm/s
Retraction Length	1-2mm
Printing Speed	40-300mm/s (higher speeds require higher temperatures)
Support Materials	Self supporting, PVA, BVOH
Printing & Storage Environment, Humidity	Room temperature up to 40°C, ≤ 20% RH (sealed with desiccant)
Printable on build plate sticker	Yes
Printable on glass plate	Yes
Printable on PEI sheet	Yes
Soluble with common solvents	No
Dry Box Recommended	No
Hardened Nozzle Required	No
Pre-print processing (Drying conditions before printing)	Drying 55°C, 8 hours (using convection oven)
Post-print processing	-



PART NUMBER TABLE

Part Number	Colour	Filament Diameter (mm ²)	EAN	UNSPSC	Country of Origin
25-0362	Gold	1.75	5053556032778	23261601	China

For further information on pricing, delivery, and long-term stock agreements please get in touch with your local business development contact, telephone our main office on **01206 838000** or email **Sales@Rapidonline.com**.



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