

TECHNICAL DATA SHEET Inslogic PLA Multicolor Silk Filament



Inslogic PLA Silk Filament delivers dynamic color transitions with a high-gloss finish, while maintaining the qualities of PLA, including excellent precision and printing stability. Its silky, shiny surface ensures that your printed parts truly stand out.

Key Features

- Easy to print
- High precision
- Environmentally friendly
- Maintains mechanical strength of PLA
- Reduces visibility of layers on printed surfaces
- Unique dynamic color-shifting aesthetics
- Creates stunning objects with a smooth, lustrous finish

Applications

- Aesthetics, design and art
- Home decor and household items
- End-use parts and models
- Creative concepts and visualization projects

Specifications

Material Name	Inslogic PLA Multicolor Silk Filament
Chemical Name	Polylactic Acid
Diameter	1.75 ± 0.02 mm
Net Filament Weight	1 kg

Recommended Print Settings

Drying Settings	50 °C, 4h
Nozzle Size	0.2, 0.4, 0.6 mm
Nozzle Temperature & Printing Speed	205 - 215 °C at 50 - 100 mm/s 215 - 235 °C at 100 - 200 mm/s
Bed Temperature	50 - 60 °C
Cooling Fan Speed	100%
Bed Type	Textured PEI Sheet, Cool Plate

Physical Properties

Property	Method	Metric
Density	ISO1183	1.25 g/cm ³
Melting Temperature, 10 °C/min	ISO11357-3	164 °C
Glass Transition Temperature, 10 °C/min	ISO11357-3	60.9 °C
Heat Deflection Temperature at 0.45 MPa	ISO75	53 °C
Shore D Hardness	ISO868	80D

Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO527/2	60.60 MPa
Elongation at Break	ISO527/2	6.3%
Flexural Strength	ISO178	65.00 MPa
Flexural Modulus	ISO178	2130 MPa
Izod Impact, Notched (X - Y, 23 °C)	ISO180	4.30 KJ/m ²



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