

TECHNICAL DATA SHEET Inslogic PLA Pro Filament



Inslogic PLA Pro is an upgraded, biodegradable filament that supports high-speed printing up to 300 mm/s. Its advanced formula delivers toughness and durability, with impact strength similar to ABS, meeting most printing needs. Easy to print and available in a variety of colors, it is the ideal choice for more reliable and successful prints.

Key Features

- Easy to print
- Strength and durability
- Better layer adhesion
- No heated bed required
- Biodegradable and eco-friendly
- High-speed compatible at up to 300 mm/s

Applications

- Prototyping & design
- Architecture models
- Orthopaedic Models
- Education & visualization
- Everyday use
- Art

Specifications

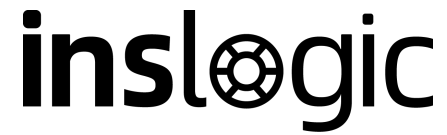
Material Name	Inslogic PLA Pro
Chemical Name	Polylactic Acid
Diameter	1.75 ± 0.02 mm
Net Filament Weight	1 kg

Recommended Print Settings

Drying Settings	50 °C, 4h
Nozzle Size	0.2, 0.4, 0.6 mm
Nozzle Temperature & Printing Speed	195 - 205 °C at 50 - 100 mm/s 205 - 220 °C at 100 - 300 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	1.20 g/cm ³
Melting Temperature, 10 °C/min	ISO11357-3	166 °C
Glass Transition Temperature, 10 °C/min	ISO11357-3	65.3 °C
Heat Deflection Temperature at 0.45 MPa	ISO75	55.0 °C
Shore D Hardness	ISO868	83D



Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO527/2	56.00 MPa
Elongation at Break	ISO527/2	20.30%
Flexural Strength	ISO178	85.80 MPa
Flexural Modulus	ISO178	2795 MPa
Izod Impact, Notched (X - Y, 23 °C)	ISO180	20.10 KJ/m ²



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