

TECHNICAL DATA SHEET Inslogic PP (Polypropylene) Filament



Inslogic PP (Polypropylene) Filament is a lightweight, food-contact-safe 3D printing material with high chemical resistance and resilience. Pre-dried for hassle-free printing - ideal for functional parts, food-safe containers, and industrial applications.

Key Features

- Low Density and Lightweight
- Suitable for Contact with Food
- High Chemical Resistance
- Highly Resilient

Applications

- Drone
- Electronic Products
- Agricultural Production
- Small Parts
- Food-safe Containers



Specifications

Material Name	Inslogic PP (Polypropylene)
Diameter	1.75 ± 0.03 mm
Net Filament Weight	0.8 kg

Recommended Print Settings

Drying Settings	50 °C, 4 - 5h
Nozzle Size	0.4, 0.6 mm
Nozzle Temperature & Printing Speed	210 - 230°C ≤ 30mm/s
Bed Temperature	50 -60 °C
Cooling Fan Speed	100%
Bed Type	Textured PEI Sheet (Need to apply PP glue)

Physical Properties

Property	Method	Metric
Density	ISO 1183	0.9 g/cm ³
Melting Temperature, 10 °C/min	ISO 11375-3	/
Glass Transition Temperature, 10 °C/min	ISO 11375-3	/
Heat Deflection Temperature at 0.45 MPa	ISO 75	54 °C

Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO 527/2	21 MPa
Elongation at Break	ISO 527/2	999%
Flexural Strength	ISO 178	19 MPa
Flexural Modulus	ISO 178	/
Izod Impact, Notched	ISO 180	6.5 KJ/m ²



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