

TECHNICAL DATA SHEET Inslogic PETG-CF10 Filament



PETG-CF10 is a high-performance 3D printing filament reinforced with 10% carbon fiber. It combines PETG 's ease of printing with enhanced strength, stiffness, and dimensional stability, making it ideal for functional prototypes, mechanical parts, and durable end-use components.

Key Features

- 10% carbon fiber reinforcement
- Excellent impact resistance
- Good chemical resistance
- Minimal warping and precise dimensions

Applications

- Functional mechanical parts
- Industrial prototypes and jigs
- Automotive and robotics parts
- High-precision engineering models

Specifications

Material Name	Inslogic PETG-CF10
Chemical Name	Polyethylene Terephthalate Glycol
Diameter	1.75 ± 0.02 mm
Net Filament Weight	1 kg

Recommended Print Settings

Drying Settings	50-60°C, 4h
Nozzle Size	0.2, 0.4, 0.6 mm
Nozzle Temperature & Printing Speed	240 - 250°C at 50 - 100 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	1.26g/cm ³
Melting Temperature, 10 °C/min	ISO11357-3	/
Glass Transition Temperature, 10 °C/min	ISO11357-3	65°C
Heat Deflection Temperature at 0.45 MPa	ISO75	70°C
Shore D Hardness	ISO868	69D



Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO527/2	35MPa
Elongation at Break	ISO527/2	30%
Flexural Strength	ISO178	55MPa
Flexural Modulus	ISO178	2700MPa
Izod Impact, Notched (X - Y, 23 °C)	ISO180	20KJ/m ²



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