

TECHNICAL DATA SHEET Inslogic ABS-GF10 Filament



Inslogic ABS-GF10 is a high-performance material reinforced with 10 wt% glass fiber, significantly improving strength and dimensional stability. It offers 30% higher strength than standard ABS, prints more reliably, and supports open printing. Ideal for functional prototypes, drone components, molds, and other demanding applications.

Key Features

- Ultra-high strength, 30% higher than ABS
- Heat resistance up to 104°C
- Low warping, no cracking
- No need for closed printing

Applications

- High strength mechanical parts
- Small parts
- High-quality surface model
- Tooling



Specifications

Material Name	Inslogic ABS-GF10
Diameter	1.75 ± 0.03 mm
Net Filament Weight	1 kg

Recommended Print Settings

Drying Settings	110 °C, 4 h
Nozzle Size	0.4, 0.6 mm
Nozzle Temperature & Printing Speed	260 - 280°C, 50 - 100mm/s
Bed Temperature	90 - 100 °C
Cooling Fan Speed	100%
Bed Type	Textured PEI sheet

Physical Properties

Property	Method	Metric
Density	ISO 1183	1.106 g/cm ³
Heat Deflection Temperature at 0.45 MPa	ISO 75	104 °C
Shore D Hardness	ISO 868	80D

Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO 527/2	54 MPa
Elongation at Break	ISO 527/2	10%
Flexural Strength	ISO 178	90 Mpa
Flexural Modulus	ISO 178	3490 Mpa
Izod Impact, Notched	ISO 180	6.7KJ/m ²



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