

TECHNICAL DATA SHEET Inslogic PA6-GF25 Filament



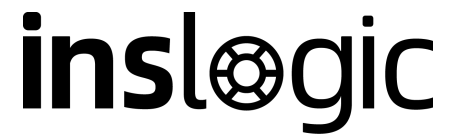
Inslogic PA6-GF25 is a high-performance material reinforced with 25% glass fiber. It is engineered for strength, rigidity, and durability, with thermal resistance up to 210°C, making it ideal for demanding industrial and engineering applications.

Key Features

- Excellent thermal resistance
- High mechanical resistance
- Dimensional stability and durability
- Good layer adhesion
- Built to last

Applications

- Manufacturing
- Automotive
- Tooling
- Functional and structural parts



Specifications

Material Name	Inslogic PA6-GF25
Diameter	1.75 ± 0.03 mm
Net Filament Weight	1 kg

Recommended Print Settings

Drying Settings	110 °C for 4h
Nozzle Size	0.4, 0.6 mm
Nozzle Temperature & Printing Speed	270-290 °C at 50-120 mm/s
Bed Temperature	50 - 70 °C
Cooling Fan Speed	100%
Bed Type	Textured PEI Sheet

Physical Properties

Property	Method	Metric
Density	ISO 1183	1.27 g/cm ³
Melting Temperature, 10 °C/min	ISO 11375-3	225 °C
Glass Transition Temperature, 10 °C/min	ISO 11375-3	65 °C
Heat Deflection Temperature at 0.45 MPa	ISO 75	210 °C



Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO 527/2	125 MPa
Elongation at Break	ISO 527/2	17%
Flexural Strength	ISO 178	190 MPa
Flexural Modulus	ISO 178	16596 MPa
Izod Impact, Notched	ISO 180	9.4 KJ/m ²



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