

## TECHNICAL DATA SHEET Inslogic PC-ABS Filament



Inslogic PC-ABS is a high-performance material that combines the heat resistance of PC with the flexural strength of ABS. It withstands temperatures up to 103 °C and offers exceptional impact resistance. It provides fine detail and excellent surface quality, making it ideal for functional prototypes, tooling, and demanding applications in automotive, electronics, and more.

### Key Features

- Ideal for end-use parts
- High-durability prototypes
- Functional mechanical parts
- Easier to print than most industrial-grade materials

### Applications

- Automotive: Accessory mounts, handles, hooks
- Electronics: Adapters, chargers
- Functional prototyping
- Tooling and gears



### Specifications

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

### Recommended Print Settings

Drying Settings	70 °C for 12h; 80 °C for 6h
Nozzle Size	0.4, 0.6 mm
Nozzle Temperature & Printing Speed	260-280 °C at 50-230 mm/s
Bed Temperature	100 - 110 °C
Cooling Fan Speed	Off
Bed Type	Textured PEI Sheet

### Physical Properties

Property	Method	Metric
Density	ISO 1183	1.08 g/cm <sup>3</sup>
Glass Transition Temperature, 10 °C/min	ISO 11375-3	106 °C
Heat Deflection Temperature at 0.45 MPa	ISO 75	103 °C



### Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO 527/2	42 MPa
Elongation at Break	ISO 527/2	8.6%
Flexural Strength	ISO 178	72 MPa
Flexural Modulus	ISO 178	2334 MPa
Izod Impact, Notched	ISO 180	70 KJ/m <sup>2</sup>



3, 13/F, Grand City Plaza  
1-17 Sai Lau Kok Road  
Tsuen Wan, New Territories  
Hong Kong

#### Contact

WhatsApp: (852) 6268 5255  
Sales: sales@inslogic3d.com  
Support: support@inslogic3d.com

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