

## TECHNICAL DATA SHEET Inslogic PC Filament



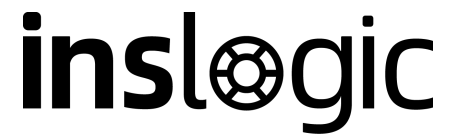
Inslogic PC filament is an engineered 3D printer filament that combines excellent strength, toughness, heat resistance, and printing quality. It is a reliable and durable material suitable for a wide range of engineering applications and end-uses.

### Key Features

- Heat resistance
- Excellent mechanical properties
- High impact strength & durability
- Suitable for engineering purposes

### Applications

- Electronic cases
- Tooling and fixtures
- Industrial modeling
- End-use parts



### Specifications

|                     |                |
|---------------------|----------------|
| Material Name       | Inslogic PC    |
| Chemical Name       | Polycarbonate  |
| Diameter            | 1.75 ± 0.03 mm |
| Net Filament Weight | 1 kg           |

### Recommended Print Settings

|                    |                    |
|--------------------|--------------------|
| Drying Settings    | 70 - 80 °C, 4-5h   |
| Nozzle Size        | 0.4, 0.6 mm        |
| Nozzle Temperature | 260 - 280 °C       |
| Bed Temperature    | 100 - 110 °C       |
| Printing Speed     | ≤150 mm/s          |
| Cooling Fan Speed  | On                 |
| Bed Type           | Textured PEI Sheet |

### Physical Properties

| Property                                | Method  | Metric                 |
|-----------------------------------------|---------|------------------------|
| Density                                 | ISO1183 | 1.15 g/cm <sup>3</sup> |
| Heat Deflection Temperature at 0.45 MPa | ISO75   | 101 °C                 |
| Shore D Hardness                        | ISO868  | 80D                    |

## Mechanical Properties

| Property             | Method   | Metric               |
|----------------------|----------|----------------------|
| Tensile Strength     | ISO527/2 | 55 MPa               |
| Elongation at Break  | ISO527/2 | 26%                  |
| Flexural Strength    | ISO178   | 80 MPa               |
| Flexural Modulus     | ISO178   | 2080 MPa             |
| Izod Impact, Notched | ISO180   | 35 KJ/m <sup>2</sup> |



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