

## TECHNICAL DATA SHEET Inslogic PETG Pro Filament



Inslogic PETG Pro combines the ease of PLA with the durability of ABS, supporting high-speed printing up to 600 mm/s. With enhanced bed adhesion, toughness, and a matte finish, it delivers high-quality results, making it ideal for functional and production printing projects.

### Key Features

- Chemical resistance
- Minimal warping and strong layer adhesion
- Low shrinkage and precise dimensions
- Rigid with excellent impact resistance
- Support high-speed printing up to 600 mm/s

### Applications

- Visual & functional prototyping
- Large-format objects
- End-use parts
- Molds & manufacturing aids
- Fit testing & concept models



### Specifications

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

### Recommended Print Settings

Drying Settings	50 °C, 4h
Nozzle Size	0.2, 0.4, 0.6 mm
Nozzle Temperature & Printing Speed	230 - 240 °C at 50 - 100 mm/s 240 - 255 °C at 100 - 300 mm/s 255 - 270 °C at 300 - 600 mm/s
Bed Temperature	60 - 70 °C
Cooling Fan Speed	100%
Bed Type	Smooth PEI Sheet, High Temperature Plate

### Physical Properties

Property	Method	Metric
Density	ISO1183	1.26 g/cm <sup>3</sup>
Melting Temperature, 10 °C/min	ISO11357-3	128 °C
Glass Transition Temperature, 10 °C/min	ISO11357-3	65.5 °C
Heat Deflection Temperature at 0.45 MPa	ISO75	72 °C



### Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO527/2	50.00 MPa
Elongation at Break	ISO527/2	34.53%
Flexural Strength	ISO178	81.90 MPa
Flexural Modulus	ISO178	2750 MPa
Izod Impact, Notched (X - Y, 23 °C)	ISO180	4.8 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

#### Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, Inslogic, Inc. makes no warranty, expressed or implied, regarding the accuracy of these results to be obtained from the use thereof. The results presented in this data sheet are just for your information and comparison. They should not be used for project specifications or its quality evaluation. In view of the many factors that may affect the processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose.

Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/recycling practices of Inslogic materials for the intended application. Inslogic makes no warranty of any kind unless announced separately, to the fitness for any particular use or application. Inslogic shall not be made liable for any damage, injury, or loss induced from the use of Inslogic materials in any particular application. Before using Inslogic material read properly all the details in the available safety data sheet (SDS).