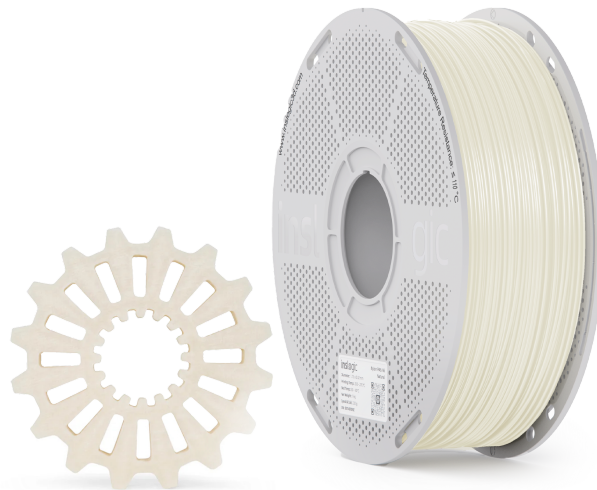


TECHNICAL DATA SHEET Inslogic Nylon PA6/66 Filament



Inslogic Nylon PA6/66 is engineered with excellent mechanical properties. It offers impact, wear, and chemical resistance, making it ideal for functional parts like load-bearing components and gears.

Key Features

- Lower warping
- Low friction coefficient
- Chemical resistance
- Easier to print with enhanced layer adhesion
- High strength and resistance to abrasion

Applications

- Functional prototypes
- Making jigs and fixtures
- Parts resistant to oils, fuels & chemicals
- End-use parts requiring high wear resistance



Specifications

Material Name	Inslogic Nylon PA6/66
Chemical Name	Polyamide
Diameter	1.75 ± 0.02 mm
Net Filament Weight	1 kg

Recommended Print Settings

Drying Settings	80 °C for 48h, 110 °C for 3h
Nozzle Size	0.2, 0.4, 0.6 mm
Nozzle Temperature	250 - 280 °C
Bed Temperature	30 - 50 °C
Printing Speed	50 - 150 mm/s
Cooling Fan Speed	100%
Bed Type	Textured PEI Sheet

Physical Properties

Property	Method	Metric
Density	ISO1183	1.08 g/cm ³
Melting Temperature, 10 °C/min	ISO11357-3	198 °C
Glass Transition Temperature, 10 °C/min	ISO11357-3	65 °C
Heat Deflection Temperature at 0.45 MPa	ISO75	123°C
Percentage Shrinkage at 23 °C	ISO294	1.3 - 1.6 %



Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO527/2	79 MPa
Elongation at Break	ISO527/2	32%
Young's Modulus	ISO527/2	1825 MPa
Flexural Strength	ISO178	103 MPa
Flexural Modulus	ISO178	2397 MPa
Izod Impact, Notched (X-Y, 23 °C)	ISO180	6.63 KJ/m ²



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