

TECHNICAL DATA SHEET Inslogic Nylon-Like Tough Resin



Inslogic Nylon-Like Tough Resin offers excellent tensile strength and impact resistance. Its high-resolution accuracy and smooth, strong finish make it perfect for durable prototypes and functional parts, including jigs and fixtures. Good compatibility with most DLP, SLA, and LCD 3D printers in the range of 385-405 nm.

Key Features

- Low odor
- Low shrinkage
- Great flexibility
- High dimensional accuracy
- Excellent durability and long-term stability
- Strong tensile strength and impact resistance

Applications

- Functional parts
- Architecture
- Practical tools
- Engineering

Physical Properties

Property	Method	Metric
Density (liquid resin)	ASTM D4052	1.2 g/cm ³
Solid Density	ASTM D792	1.20 g/cm ³
Viscosity (mPa.s, 25 °C)	ASTM D7867	100 - 300
Shore D Hardness	ASTM D2240	83D

Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO 527	35 MPa
Elongation at Break	ISO 527	32%
Flexural Strength	ISO 178	45 MPa
Flexural Modulus	ISO 178	1060 MPa
Izod Impact, Notched	ISO 179	85 J/m
Heat Deflection Temperature at 0.45 MPa	ISO 75	50 °C



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