

TECHNICAL DATA SHEET Inslogic Nylon-Like Tough Resin



Inslogic Nylon-Like Tough Resin offers great tensile strength and high impact resistance. Printed parts maintain a strong, smooth surface finish and high-resolution accuracy. Its resistance to breaking makes it ideal for prototyping 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
- Great flexibility
- Excellent durability & long-term stability
- Strong tensile strength & impact resistance
- High dimensional accuracy & low shrinkage

Applications

- Functional parts
- Architecture
- Practical tools
- Engineering

Physical Properties

Property	Method	Metric
Density (liquid resin)	ASTM D4052	1.16 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	32 MPa
Elongation at Break	ISO 527	30%
Flexural Strength	ISO 178	40 MPa
Flexural Modulus	ISO 178	1020 MPa
Izod Impact, Notched	ISO 179	80 J/m
Heat Deflection Temperature at 0.45 MPa	ISO 75	50 °C



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