

TECHNICAL DATA SHEET Inslogic TPU 95A Filament



Inslogic TPU 95A offers a soft, flexible material that creates strong, durable objects capable of flexing, bending, and returning to their initial form. Its high resistance to abrasion and wear makes it popular in various industries, including medical instruments, automotive parts, sporting goods, and protective cases.

Key Features

- Strong layer bonding
- Create tough, flexible part
- Good flexibility with rubber-like texture
- Maximum elongation of 1063%
- High resistance to abrasion, wear & tear
- Chemical resistance

Applications

- Soft-touch multi-material models or handles
- Mechanical parts
- Protective covers, safety covers & bumpers
- Springs, seals & shock absorbers
- Wheels and rollers
- Shoe soles, watch straps

Specifications

Material Name	Inslogic TPU 95A
Chemical Name	Thermoplastic Polyurethane
Diameter	1.75 ± 0.03 mm
Net Filament Weight	1 kg

Recommended Print Settings

Drying Settings	50 °C, 4h
Nozzle Size	0.4, 0.6 mm
Nozzle Temperature & Printing Speed	190 - 210 °C at 50 - 80 mm/s 210 - 230 °C at 80 - 120 mm/s
Bed Temperature	50 - 60 °C
Cooling Fan Speed	100%
Bed Type	Textured PEI Sheet, Cool Plate

Physical Properties

Property	Method	Metric
Density	ISO1183	1.23 g/cm ³
Heat Deflection Temperature at 0.45 MPa	ISO75	53 °C
Shore Hardness	ISO868	95A



Mechanical Properties

Property	Method	Metric
Tensile Strength	ISO527/2	36.10 MPa
Elongation at Break	ISO527/2	1050%
Young's Modulus	ISO527/2	51.20 MPa
Flexural Strength	ISO178	4.47 MPa
Flexural Modulus	ISO178	89.30 MPa
Izod Impact, Notched (X-Y, 23 °C)	ISO180	No Break



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