

TPU (Thermoplastic Polyurethane) 3D Filament Data Sheet

Physical Properties – Typical Values

Property	Value (SI Units)
Tensile Modulus (ASTM D638)	22.0 MPa
Ultimate Tensile Strength	35.3 MPa
Material Hardness	100 A Shore (-5/+10)
Elongation at Break	400%
Density, ASTM D792	1.29 gm/cm ³
Izod Impact, 23 C, (ASTM D256)	200 J /min
Glass Transition Temp, ASTM D792	-14 °C
Melting Temp, MQSA 111	155 °C

3D Printing Guide

Property	Value (SI Units)
Recommended Print Speed	45 - 60 mm /s
Recommended Nozzle Temperature	225 – 240 °C
Recommended Bed Temperature	70 °C
Preferred Bed Adhesive	PEI Cover and Glue or Glass and Glue
Special Considerations	Fan Speed 50%
Nominal Outer Diameter	1.75mm / 2.85mm (Industry Standard +/- 3%)
Available Sizes	750gm, 1KG, 3KG

Suggested Applications

Bendable filaments and 3D printing elastomers have a multitude of uses. You can find a bendable elastomer material that will meet your application needs. In addition to their bendable properties, they have superior melt flow characteristics and feature excellent print quality.

Available in Multiple Colors: Custom Pantone Selection upon request (MOQ of 50 KG)

Material is produced using both virgin and reprocessed materials from consistent sources.

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