



Technical Data Sheet

PLA_TPE (Synthetic Rubber Modified Polylactic Acid)

Physical Properties – Typical Values	
Property	Value (SI Units)
Tensile Modulus (ASTM D638)	1800 MPa
Ultimate Tensile Strength	42 MPa
Elongation at Break	80%
Density, ASTM D792	1.2 gm/cm ³
Hardness (Shore), ASTM D785	50 to 65 R
Izod Impact, 23 C, ASTM D256	175 J /min
Glass Transition Temp, ASTM D792	45 - 55 °C
Heat Deflection Temp, ASTM D648	65 to 75 °C
3D Printing Guide	

Property	Value (SI Units)
Recommended Print Speed	35 - 50 mm /s
Recommended Nozzle Temperature	225 – 245 °C
Recommended Bed Temperature	75 °C
Preferred Bed Adhesive	PEI Cover and Glue or Glass and Glue
Special Considerations	Fan Speed 20%

Suggested Applications

PLA_TPE is a composite material that has a rubber type texture. It's been used in a variety of semi-soft applications - gasketing requiring some rigidity, parts requiring a little flexibility with strength, and wheel handles that had a soft feel. The printed parts can withstand some chemical resistance if the temperatures are < 150°F.

Available Colors: Natural, Black, Blue, Green, Red, Yellow, White, and Custom

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

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