



## TPU 95A Thermoplastic Polyurethane

### Mechanical Properties

Type	Test Method	Imperial	Metric
Tensile Strength, Ultimate	ASTM D638	5,650 psi	39 MPa
Tensile Strength, Yield	ASTM D638	1,250 psi	9 MPa
Tensile Elongation at Yield	ASTM D638	55%	55%
Tensile Modulus	ASTM D638	3,800 psi	26 MPa
Tensile Elongation at Break	ASTM D638	580%	580%
Toughness (stress x strain)	ASTM D638	17,000 in-lbF/in <sup>3</sup>	117.2 m*N/m <sup>3</sup> x10 <sup>6</sup>
Hardness	ASTM D2240	95 Shore A	95 Shore A
Impact Strength (Notched Izod, 23 °C)	ASTM D256	2.0 ft.lbf/in <sup>2</sup>	4.2 kJ/m <sup>2</sup>
Abrasion Resistance (Mass loss, 10,000 cycles)	ASTM D4060	0.08 g	0.08 g

### Thermal & General Properties

Type	Test Method	Imperial	Metric
Heat Deflection at 0.45 MPa	ASTM D648	111°F	44°C
Heat Deflection at 0.07 MPa	ASTM D648	140°F	60°C
Moisture Absorption – 24 hours	ASTM D570	0.22%	0.22%

