

TPU

Thermoplastic elastomer material with **rubber-like flexibility and functionality**. Durable with **good tear resistance, surface finish and feature detail**.

Shore A hardness can be varied without changing material. Applications: **consumer goods, exible parts for industrial prints, functional prototypes and footwear, hoses and seals**.

Mechanical Properties

	Condition	Metric
Tensile Strength, Ultimate	ASTM D412	2.1 MPa
Tensile Strength, Break	ASTM D638	2.0 MPa
Tensile Modulus	ASTM D638	5.3 MPa
Elongation at Yield	ASTM D638	220 %
Elongation at Break	ASTM D412	200 %
Flexural Modulus	ASTM D790	6.0 MPa
Hardness, Shore A	ASTM D2240	59.0
Initial Tear Resistance (Die C @ 23 °C)	ASTM D624	15.4 J/m
Abrasion Resistance Taber, CS-17 Wheel, 1 Kg Load D4060	ASTM D4060	97.9 mg/ 1000 cycles

General Properties

	Condition	Metric
Sintered Part Density	Internal	0.78 g/cm ³