# Smooth TPU

CHEMTR N
INSPIRED BY INNOVATION

Smooth TPU (Thermoplastic Polyurethane) is an elastomeric material ideal for functional parts requiring elongation and flexibility. You can print drive belts, bumpers, protective coverings, gaskets, and more with a smooth surface finish and high reliability. Markforged S-TPU is available in black and white colors.

	Test (ASTM)	S-TPU Result
Shore Hardness (Shore A)	D2240-15 (Type A)	95
Shore Hardness (Shore D)	D2240-15 (Type D)	53
Tensile Modulus at 2% Strain (MPa)	D412-16	98
Tensile Modulus at 100% Strain (MPa)	D412-16	13
Tensile Stress at Break (MPa)	D412-16	26
Tensile Strain at Break (%)	D412-16	550
Flexural Modulus (MPa)	D790	90
Density (g/cm^3)	D792-20 (Method A)	1.2
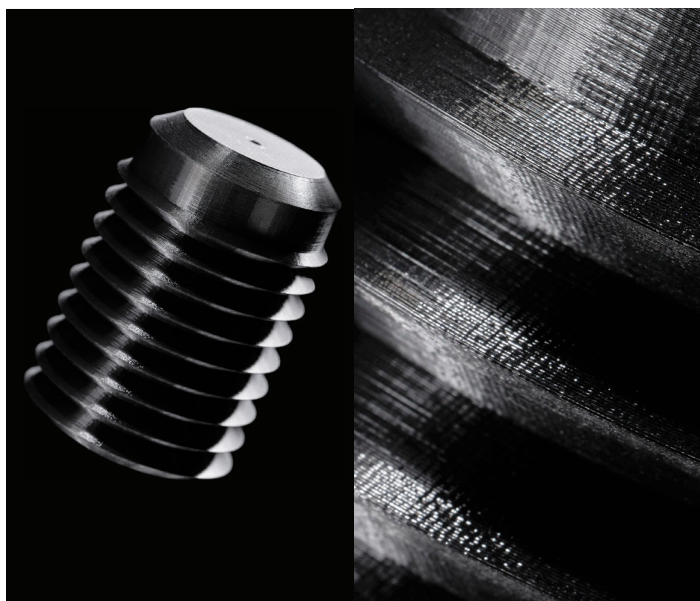
S-TPU in Black
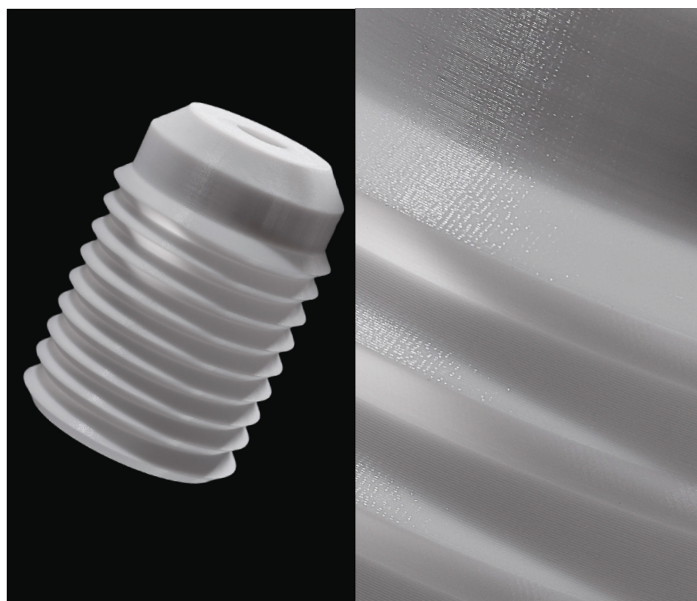
S-TPU in White

Test Specimens:

All data were provided by an accredited third-party test facility. These represent typical values.

Markforged test plaques are uniquely designed to maximize test performance. Plastic test plaques are printed with full infill. To learn more about specific testing conditions or to request test parts for internal testing, contact a Markforged representative. All customer parts should be tested in accordance with customer's specifications.

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