



TDS Rev 1.0

Technical Data Sheet: 3DXFLEX™ TPU (90A) 3D Printing Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.16

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	DIN 53504	MPa	55.2
Tensile Modulus	DIN 53504	MPa	7.8
Tensile Elongation, Yield	DIN 53504	%	>500

Thermal Properties	Standard	Unit	Typical Value
Vicat Softening Temperature	ISO 306	°C	98

Hardness	Standard	Unit	Typical Value
Shore Hardness	ISO 7619-1	Shore A	90A

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 240°C
Bed Temp: 40°C
Specimen Orientation: XY Flat

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