



**Technical Data Sheet: 3DXSTAT™ ESD-TPU (90A) 3D Printing Filament**

Physical Properties	Standard	Unit	Typical Value
Density	ISO 2781	g/cc	1.18

Material Properties	Standard	Unit	Typical Value
Tensile Strength, Yield	ISO 527	MPa	12
Tensile Elongation, Yield	ISO 527	%	>300
Flexural Strength	ISO 178	MPa	31
Abrasion Loss	ISO 4649-A	mm <sup>3</sup>	25
Shore Hardness	ISO 868	-	90A

Electrical Property	Standard	Unit	Typical Value
Surface Resistance	ASTM D257	Ohm/sq	$>10^2 - 10^3 <$

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 260°C
Bed Temp: 60°C
Specimen Orientation: XY Flat

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