



TDS Rev 1.0

**Technical Data Sheet: 3DXFLEX™ 30% Glass Fiber Reinforced TPU**

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.45

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Yield	ISO 527	MPa	60
Tensile Modulus	ISO 527	MPa	1850
Tensile Elongation, Break	ISO 527	%	18
Flexural Strength	ISO 178	MPa	55
Flexural Modulus	ISO 178	MPa	1800

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	80
Heat Deflection Temperature (HDT) at 0.45 MPa (66psi)	ISO 75	°C	176
Heat Deflection Temperature (HDT) at 1.8 MPa (264psi)	ISO 75	°C	86

Hardness	Standard	Unit	Typical Value
Shore Hardness	ISO 7619-1	Shore D	60

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 255°C
Bed Temp: 40°C
Specimen Orientation: XY Flat

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