Technical Data Sheet: SimuBone™ Bone Simulation Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.34

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	65
Tensile Modulus	ISO 527	MPa	3410
Tensile Elongation, Break	ISO 527	%	4
Flexural Strength	ISO 178	MPa	122
Flexural Modulus	ISO 178	MPa	3355

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	55
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	89

Certifications	Standard	Efficacy Rate
Certified Antibacterial	ISO 22196:2011	99.9%

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 230°C
Bed Temp: 23°C
Specimen Orientation: XY Flat

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