



Technical Data Sheet: ThermaX™ PEEK GF20 3D Printing Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.44

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	105
Tensile Modulus	ISO 527	MPa	7250
Tensile Elongation, Break	ISO 527	%	2.5
Flexural Strength	ISO 178	MPa	130
Flexural Modulus	ISO 178	MPa	7625

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	143
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	300

Electrical Property	Standard	Unit	Typical Value
Surface Resistance	ASTM D257	Ohm/sq	>10 ¹³

Printed Specimen Conditions
Printer: Open Source 3D Printer
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 400°C
Bed Temp: 160°C
Specimen Orientation: XY Flat