

Technical Data Sheet: CeramiX™ Ceramic-filled PEKK 3D Printing Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.41

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Yield	ISO 527	MPa	90
Tensile Modulus	ISO 527	MPa	3600
Tensile Elongation, Yield	ISO 527	%	4.8
Flexural Strength	ISO 178	MPa	105
Flexural Modulus	ISO 178	MPa	3700

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	165
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	173

Electrical Properties	Standard	Unit	Typical Value
Surface Resistance	ASTM D257	Ohm/sq	>10 ¹⁴
Dielectric Strength	ASTM D149	V/mil	160
Dielectric Constant	ASTM D150	-	4.25
Comparative Tracking Index	ASTM D3638	V	150

Printed Specimen Conditions
Printer: Gearbox™ HT2
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 400°C
Chamber & Bed Temp: 140°C
Specimen Orientation: XY Flat

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