



Technical Data Sheet: ThermaX™ PEI GF30 [Made using ULTEM™ PEI]

Physical Properties	Standard	Unit	Metric
Density	ISO 1183	g/cc	1.51

Mechanical Properties	Standard	Unit	Metric
Tensile Strength, Yield	ISO 527	MPa	145
Tensile Modulus	ISO 527	MPa	8790
Tensile Elongation	ISO 527	%	2
Flexural Strength	ISO 178	MPa	178
Flexural Modulus	ISO 178	MPa	8560

Thermal Properties	Standard	Unit	Metric
Glass Transition Temperature (Tg)	DSC	°C	217
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	212

Fire Testing*	Standard	Unit	Typical Value
Flamability Rating (*Base Resin)	UL 94	-	V-0 @ 0.25mm

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 380-410°C
Bed Temp: 130-140°C
Specimen Orientation: XY Flat

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