



TDS Rev 4.0

Technical Data Sheet: ThermaX™ PEI [Made using ULTEM™ 1010]

Physical Properties	Standard	Unit	Metric
Density	ISO 1183	g/cc	1.27

Mechanical Properties	Standard	Unit	Metric
Tensile Strength	ISO 527	MPa	56
Tensile Modulus	ISO 527	MPa	2500
Tensile Elongation	ISO 527	%	3
Flexural Strength	ISO 178	MPa	110
Flexural Modulus	ISO 178	MPa	2510

Thermal Properties	Standard	Unit	Metric
Glass Transition Temperature (Tg)	DSC	°C	217
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	208

Fire Testing*	Standard	Unit	Typical Value
Flamability Rating (*Base Resin)	UL 94	-	V-0 @1.5mm

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 380-400°C
Bed Temp: 130-140°C
Specimen Orientation: XY Flat

www.3dxtech.com

Disclaimer: The technical data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data should not be used to establish specifications limits or used alone as the basis of design. The data provided is not intended to substitute any testing that may be required to determine fitness for any specific use.

ULTEM™ is a registered trademark of Sabic IP