



TDS Rev 1.0

Technical Data Sheet: THERMAX® PPE/PS 3D Printing Filament
 [Polyphenylene Ether + Polystyrene]

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.10

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	67
Tensile Modulus	ISO 527	MPa	2250
Tensile Elongation, Break	ISO 527	%	12
Flexural Strength	ISO 178	MPa	85
Flexural Modulus	ISO 178	MPa	2300

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	128
Deflection Temperature at 1.8 MPa	ISO 75	°C	112

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

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 310°C
Bed Temp: 120°C
Specimen Orientation: XY Flat

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