



Technical Data Sheet: MAX-G™ PCTG 3D Printing Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.23

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	45
Tensile Modulus	ISO 527	MPa	1755
Tensile Elongation, Break	ISO 527	%	24
Flexural Strength	ISO 178	MPa	72
Flexural Modulus	ISO 178	MPa	1600
Izod Impact Strength	ISO 180/A	kJ/M ²	8

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (T _g)	DSC	°C	78
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	76

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: 275°C
Bed Temp: 90°C
Specimen Orientation: XY Flat