



Technical Data Sheet: WearX™ Wear Resistant PA6 Copolymer 3D Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.18

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	62
Tensile Modulus	ISO 527	MPa	2458
Tensile Elongation, Break	ISO 527	%	18
Flexural Strength	ISO 178	MPa	70
Flexural Modulus	ISO 178	MPa	2215

Thermal Properties	Standard	Unit	Typical Value
Melt Temperature (Tm)	DSC	°C	198
Glass Transition Temperature (Tg)	DSC	°C	76
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	143

Wear Properties	Standard	Unit	Typical Value
Wear Rate	ISO 7148-2	µm/km	12
Dynamic Coefficient of Friction	ISO 7148-2	-	0.35-0.55

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

Printed Part Recommendations
Nozzle: 0.2mm or larger
Layer Height: 0.15mm or larger
Extrusion Multiplier: 0.95-1.0
Extrusion Temp: 260-275°C
Print Bed Temp: 80-95°C
Print Bed Enclosure: Recommended
Drying Recommendations: 90°C for 4-6 Hours