

**Technical Data Sheet: AmideX™ PA6-GF30 Glass Fiber Nylon 3D Printing Filament**

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.35

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	62.8
Tensile Modulus	ISO 527	MPa	4261
Tensile Elongation, Break	ISO 527	%	6
Flexural Strength	ISO 178	MPa	72
Flexural Modulus	ISO 178	MPa	3600

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (T <sub>g</sub> )	DSC	°C	70
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	186

Electrical Property	Standard	Unit	Typical Value
Surface Resistance	ASTM D257	Ohm/sq	>10 <sup>9</sup>

Printed Specimen Conditions
Printer: Gearbox™ HT2
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 265°C
Bed Temp: 70°C
Specimen Orientation: XY Flat

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