



**Technical Data Sheet: FibreX™ ABS+GF10 Glass Fiber ABS**

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.15

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	68
Tensile Modulus	ISO 527	MPa	4210
Tensile Elongation, Break	ISO 527	%	2
Flexural Strength	ISO 178	MPa	70
Flexural Modulus	ISO 178	MPa	4420

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (T <sub>g</sub> )	DSC	°C	105
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	98

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

Printed Specimen Conditions
Printer: Open Source FDM/FFF
Nozzle: 0.4mm
Layer Height: 0.25mm
Infill: 100%, +/- 45°
Extrusion Temp: 245°C
Bed Temp: 110°C
Specimen Orientation: XY Flat