



Technical Data Sheet: Obsidian™ GF 15% Glass Fiber PA6 3D Printing Filament

Physical Properties	Standard	Unit	Typical Value
Density	ISO 1183	g/cc	1.22

Mechanical Properties	Standard	Unit	Typical Value
Tensile Strength, Break	ISO 527	MPa	85
Tensile Modulus	ISO 527	GPa	4.6
Tensile Elongation, Break	ISO 527	%	5.8
Flexural Strength, Yield	ISO 178	MPa	128
Flexural Modulus	ISO 178	GPa	4.7

Thermal Properties	Standard	Unit	Typical Value
Glass Transition Temperature (Tg)	DSC	°C	70
Deflection Temperature at 0.45 MPa (66psi)	ISO 75	°C	176

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

Printed Specimen Conditions

Printer: Markforged Onyx One™

Layer Height: 0.125mm

Infill: 100%

Specimen Orientation: XY Flat