

## 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 <sup>9</sup>

Printed Specimen Conditions	
Printer: Markforged Onyx One™	
Layer Height: 0.125mm	
Infill: 100%	
Specimen Orientation: XY Flat	

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