

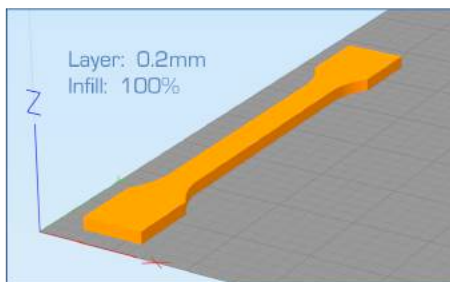


3DXSTAT™ ESD-Safe ABS 3D Filament

3DXSTAT™ ESD-Safe ABS (acrylonitrile butadiene styrene) is a high-performance 3D printing filament formulated utilizing state-of-the-art conductive additives and premium ABS. This filament is ideal for applications that require consistent and reliable electrostatic dissipation (ESD) protection. 3DXSTAT™ ESD-Safe ABS is an amorphous polymer that offers excellent dimensional stability and high thermal resistance. Suitable for use in practically all consumer-grade FDM/FFF printers. Made by 3DXTECH® in the USA.

The reported technical data was generated from printed ISO test specimen. The general print parameters utilized are noted below.

- Desktop FDM/FFF Printer
- Nozzle: 0.4mm A2 hardened
- Layer height: 0.2mm
- Infill: 100%, +/- 45°
- Extrusion temp: 240°C
- Bed temp: 110°C
- Bed prep: ABS/Acetone Gel
- Print speed: 50 mm/sec



Disclaimer: The technical data contained on this data sheet is furnished without charge or obligation and accepted at the recipient's sole risk. This data should not be used to establish specifications limits or used alone as the basis of design. The data provided is not intended to substitute any testing that may be required to determine fitness for any specific use.

General Property	Unit	Standard	Typical Value
Density	g/cc	ISO 1183	1.09

Mechanical Property	Unit	Standard	Typical Value
Tensile Strength	MPa	ISO 527	42
Tensile Modulus	MPa	ISO 527	2131
Tensile Elongation, Break	%	ISO 527	3.8
Flexural Modulus	MPa	ISO 178	2274
Flexural Strength	MPa	ISO 178	80

Thermal Property	Unit	Standard	Typical Value
Glass Transition Temperature (Tg)	°C	DSC	105
Heat Distortion Temperature (HDT) @ 0.45MPa	°C	ISO 75	102

Electrical Property	Unit	Standard	Typical Value
Surface Resistivity	Ohm/sq	IEC 60093	>10 ⁹ - 10 ⁹ <

Printing Recommendation	Typical Range
Extruder Temperature	230 - 250°C
Bed Temperature	100 - 110°C
Print Speed	50 - 70 mm/sec