

## EVO-tech ABS-ESD (Antistatic) Filament

### Description

ABS-ESD (acrylonitrile butadiene styrene-electrostatic dissipative) is an ABS thermoplastic with static dissipative properties for applications where a static charge can damage products, impair their performance or cause an explosion. ABS-ESD prevents a buildup of static electricity, so it will not produce a static shock or cause other materials like powders, dust and fine particles to stick to it

### Application

Ideal for electronic products with circuit boards and for the transportation and industrial equipment industries. Most widely used to create jigs and fixtures for the assembly of electronic components, but it is also useful for building functional prototypes of fuel storage and delivery products, as well as cases, enclosures and packaging.

### Storage and Shelf Life

Store at around room temperature (18 to 27 °C [65–80 °F]) and protect from direct heat or sunlight. Keep sealed in an air tight container, away from humidity.

### True Colours Available

Color: black

Values refer to the raw material and may vary depending on the printing direction or settings

Properties	Test Condition	Test Method	Unit	Value
Tensile Strength	10mm/min	ASTM D638	MPa	32
Tensile Elongation	10mm/min	ASTM D638	%	2,8
Flexural Modulus	10mm/min	ASTM D638	MPa	2200
Flexural Strength	15mm/min	D790	MPa	60
Izod Impact Strength	20°C	ASTM D256	J/m	26
Heat Distortion Temperature		ASTM D648	°C	82
Vicat Softening Temperature	Rate B/50	ASTM D1525	°C	99
Surface Resistance		ASTM D257	Ohm	10 <sup>6</sup> - 10 <sup>9</sup>
Specific Gravity		D792	g/cm <sup>3</sup>	1,08

### Print Settings EVOLizer

Extruder: 240 – 260 °C

Heatbed: 90 – 110 °C

Print on. EVO-tech Printbed

Pre Drying: 70°C / 2-4 h