

ABS-ESD7

Fused Deposition Modelling
(FDM)



Strong ABS with static dissipative properties

ABS-ESD7 is a durable and electrostatic-dissipative thermoplastic suitable for applications where a static charge can damage products, affect performance or cause an explosion.

ABS-ESD7 prevents a build-up 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. Commonly used in the transportation and industrial equipment industries, ABS-ESD7 is ideal for electronic products with circuit boards. It is widely used to create jigs and fixtures for the assembly of electronic components, but other applications include functional prototypes of fuel storage and delivery products as well as cases, enclosures and packaging.

Why choose ABS-ESD7?

- Static dissipative properties to prevent build-up of static electricity
- Durable thermoplastic
- Perfect for complex geometries, as it works with soluble support technology

Applications

- Applications where a static charge can damage products, impair their performance or cause an explosion
- Jigs, fixtures, cases, enclosures for electronic component assembly
- Functional prototyping and end-use parts



ABS-ESD7

Fused Deposition Modelling (FDM)



General properties	Value (XY Axis)	Test method
Colour	Black	Visual
Part density	1.04 g/cm ³	ASTM D792

Thermal properties	Value (XY Axis)	Test method
Heat deflection temperature (0.45Mpa)	96° C	ASTM D648
Heat deflection temperature (1.8Mpa)	82° C	ASTM D648

Mechanical properties	Value (XY Axis)	Test method
Tensile strength (ultimate)	38 MPa	ASTM D638
Tensile modulus	2400 MPa	ASTM D638
Elongation at break	3%	ASTM D638
Flexural strength	61 MPa	ASTM D790
Flexural modulus	2400 MPa	ASTM D790
Impact strength – Izod (notched)	28 J/m	ASTM D256
Impact strength – Izod (un-notched)	55 J/m	ASTM D256

Electrical	Value (XY Axis)	Test method
Volume resistivity	$3.0 \cdot 10^9 - 4.0 \cdot 10^{10}$ ohm·cm	ASTM D257

Other	Value (XY Axis)	Test method
Volume resistivity	HB (1.5mm)	UL94

Get a quote for your parts at rapidfab.ricoh-europe.com

Have a question? Call our friendly team on

+44 (0) 800 304 7196

Specifications are subject to change without notice.

The technical data indicated above is an average value of the test result of a part created under proper management and appropriate conditions.
The value is for reference and is not guaranteed.