EON PET ESD-SAFE

EON PET ESD-SAFE is an advanced material designed for use in critical applications which require electrostatic discharge (ESD) protection. It is a plastic with good mechanical properties and medium thermal resistance. Compared to EON PLA, it is more flexible and less brittle. The surface resistance of the printed EON PET ESD-SAFE part will vary depending on the printer's extruder temperature. For example, if your testing indicates the part is too insulative, then increasing the extruder temperature will result in improved conductivity. Therefore, the surface resistance can be 'dialed-in' by adjusting the extruder temperature up or down depending on the reading you receive on your part.

Mechanical Properties	Vertical xz	Method
Tensile Yield Strength	50 MPa	ISO 527
Tensile Modulus	1800 MPa	
Elongation at Yield Point	13 %	
Flexural Strength	74 MPa	ISO 178
Flexural Modulus	1780 MPa	

Thermal Properties	Typical Value	Method
Heat Deflection Temperature (0,45 MPa)	75° C	ISO 75
Glass Transition Temperature (Tg)	80° C	DSC

Other Properties	Typical Value	Method
Density	1,28 g/cm^3	ISO 1183
Surface Resistance	> 107 - 109 < Ohm/sq	ASTM D257

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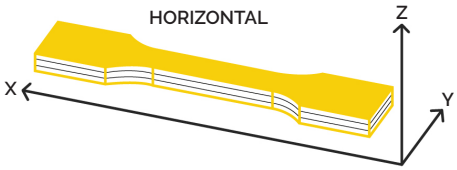
Print Settings:
Nozzle: 0,4mm
Layer Height: 0,25mm
Infill: 100%
Extrusion Temp: 250°C
Bed Temp: 70°C
Specimen Orientation: XY Flat



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