

TECHNICAL DATA SHEET

CONDUCTIVE FILAFLEX

Description

CONDUCTIVE FILAFLEX is a Thermoplastic Polyurethane elastomer electrically conductive which makes it suitable for wearable devices and other flexible electronics applications.

Physical properties **Value** **Unit** **Test method according to**

Material density 1.35 g/cm³ ISO 1183

Mechanical properties **Value** **Unit** **Test method according to**

Hardness 92 Shore A DIN 53505 – ISO 868

Tensile modulus (Young) 90 MPa ISO 527

Notched impact strength
(Charpy) at +23°C NB kJ/m² ISO 179

Elongation at break >100 % ISO 527

Electrical properties **Value** **Unit** **Test method according to**

Electrical Resistivity surface <1E1 ohm ASTM D 257

Electrical Resistivity 3.9 Ω-cm Approx.

Printing properties **Recommended**

Printing temperatures 245-250°C

Printing speed 20 mm/s

Hot-bed temperature 50-60°C

Retractions 2-3 mm/s to 40 mm/s

Printing speed should be lower as recommended to get a perfect printing. After each change of material the extruder must be cleaned.

The information provided here is for reference only because the raw materials are from different sources. We request that customers inspect and test our products before using them to satisfy themselves as to contents and suitability.