

**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. Thanks to its 92A shore hardness, it is compatible with 90% of the 3D printers on the market.

<b>Physical Property</b>	<b>Value</b>	<b>Unit</b>	<b>Test method according to</b>
Material density	1,330	g/cm3	ISO 1183
	0,000	kg/m3	ISO 1183
Melt flow rate (230°C/2,16kg)	12	g/10min	ISO 1133

<b>Electrical Property</b>	<b>Value</b>	<b>Unit</b>	<b>Test method according to</b>
Electrical resistivity surface	*	ohm cm	ASTM D 257
Electrical resistivity	*	ohm	
* request to our technical department <a href="mailto:info@recreus.com">info@recreus.com</a>			

<b>Thermal Property</b>	<b>Value</b>	<b>Unit</b>	<b>Test method according to</b>
HDT (01,82MPa)	50	°C	ISO 75-2
VST Vicat Softening Temperature	50	°C	Vicat A Method: 10 Nw, 120°C/h

<b>Printing Properties</b>	<b>Recommended</b>
Printing temperatures	245-250°C
Printing speed	20mm/s
Hot-bed temperature	50-60°C
Retractions	2-3mm/s to 40mm/s

**Printing speed** should be lower as recommended to get a perfect printing. After each change of material the extruder must be cleaned. To successfully use Conductive Filaflex filament in electronic applications, the electrical resistance of the circuit must be considered and it must take into account that this filament is designed for low current applications.

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.