

Silver Copper Loaded Fluorosilicone

Material Reference: EC-H

P & P Technology material reference EC-H is a printing grade fluorosilicone elastomer with a Silver/Copper conductive filler and is green in colour.

The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of -55°C to +160°C.

Fluorosilicone offers excellent performance over a wide temperature range with good resistance to chemicals, mineral based oils/greases and weathering.

<u>Physical Properties</u>	<u>Test methods</u>	<u>Typical values:</u>
Hardness (IRHD)	ASTM D-2240	65 ±5
Specific gravity (g/cc)	ASTM D-792	3.7 ±0.1
Tensile strength (Mpa)	ASTM D-412	1.5
Elongation % Min.	ASTM D-412	110 min
Compression set % 72 hrs @ 100°C	ASTM D-395	30 max

Electrical properties

Volume resistivity (Ohm/cm)	Mil-G-83528	0.005Ω max
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Shielding effectiveness (Mil-G-83528) dB: (Mil std 285 procedure)

200KHz	75dB
100MHz	100dB
500MHz	105dB
2GHz	101dB
10GHz	110dB

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