

Silver Copper Loaded Silicone EC-H

P & P Technology material reference EC-H is a fluorosilicone elastomer with a silver / copper conductive filler.

Silicone offers excellent performance over a wide temperature range (-55°C to +160°C) with good resistance to hydrocarbons, chemicals & weathering.

Its resistance to mineral based fluids is limited, but it has good splash resistance to most oils and greases.

Physical Properties

	Test Methods	Typical Values
Hardness	ASTM D-2240	60±5 IRHD
Specific Gravity	ASTM D-792	3.5±0.1 g/cm ³
Tensile Strength	ASTM D-412	2.1 MPa
Elongation	ASTM D-412	110% minimum
Compression Set 72 hours @ 100°C	ASTM D-395	30% maximum

Electrical Properties

Volume Resistivity	Mil-G-83528	0.005Ω/cm maximum
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Shielding Effectiveness (Mil-G-83528) dB (Mil Std 285)

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

