

Silver Aluminium Loaded Silicone

Material Reference: EC-J

P & P Technology material reference EC-J is a silicone elastomer with a Silver/Aluminium conductive filler.

The material is specially compounded to offer excellent physical and electrical properties over an effective temperature range of -55 to $+160^{\circ}\text{C}$.

Silicone offers excellent performance over a wide temperature range with good resistance to chemicals and weathering.

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

Physical Properties

Test methods

Typical values:

Hardness (IRHD)	ASTM D-2240	60 ± 5
Specific gravity (g/cc)	ASTM D-792	2.00 ± 0.1
Tensile strength (Mpa)	ASTM D-412	1.7
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	0.008Ω max
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Shielding effectiveness (Mil-G-83528) dB:

(Mil std 285 procedure)

200KHz	79dB
100MHz	105dB
500MHz	108dB
2GHz	102dB
10GHz	110dB

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