

CEE-SC001 ELECTRICALLY CONDUCTIVE SILVER PLATED COPPER FILLED SILICONE ELASTOMER

Product overview

CEE-SC001 is an electrically conductive composite material comprising of silicone elastomer and silver-plated copper particles. It is formulated for the production of extruded sections/gaskets that offer a combined high level of EMI shielding and environmental sealing over a wide temperature range. The silicone elastomer base provides excellent resistance to environmental degradation.

CEE-SC001 provides reliable low impedance connections and excellent shielding performance in demanding applications e.g. waveguide gaskets, EMP protection, base station applications etc.

Cured Properties	
Colour	Tan
Density	3.5 gcm ⁻³
Hardness Range	30-80 Shore A Standard 65 Shore A
Volume resistivity	<0.005Ω.cm
Tear strength	7kN/m
Tensile strength	2.0MPa
Elongation	100%
Compression set – 72 hours at 100°C	25%
Service temperature range	-55°C to 160°C
Maximum intermittent temperature	200°C

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Shielding Effectiveness	
200kHz (H field)	80dB
100MHz (E field)	110dB
500MHz (E field)	110dB
2GHz (Plane wave)	115dB
10GHz (Plane wave)	115dB

Available forms

This material is available in a wide range of solid and hollow profiles such as 'O' sections, 'D' sections, 'U' channels, etc. The equivalent material type (CEM-SC001) is also available as moulded components, sheets and flat gaskets. In either form gaskets or sheet material can be supplied with a self adhesive backing to assist installation / assembly.

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