

CEM-SC001 ELECTRICALLY CONDUCTIVE SILVER COATED COPPER FILLED SILICONE ELASTOMER

Product overview

CEM-SC001 is an electrically conductive composite material comprising of silicone elastomer and silver-plated copper particles. It is formulated for the production of sheet, flat gaskets and custom mouldings 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.

CEM-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	3.5gcm ⁻³
Hardness Range	30-80 Shore A Standard 65 Shore A
Volume resistivity	<0.005Ω.cm
Tensile strength	2.0MPa
Elongation (minimum before break)	100%
Compression set – 72 hours at 100°C	<25%
Service temperature range	-55°C to 160°C

**CEM-SC001 ELECTRICALLY CONDUCTIVE
SILVER COATED COPPER FILLED SILICONE ELASTOMER****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 as die cut flat gaskets, sheet, strips and custom moulded components. The equivalent material type is also available in the form of extruded sections (CEE-SC001). Gaskets and sheet material can be supplied with a self adhesive backing to assist installation / assembly

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