



TECHNICAL DATA SHEET

SHIELDING SOLUTIONS CEE-SA001 ELECTRICALLY CONDUCTIVE SILVER / ALUMINIUM FILLED SILICONE ELASTOMER

Product overview

CEE-SA001 is an electrically conductive composite material comprising of silicone elastomer and silver-plated aluminium 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-SA001 also exhibits good galvanic (electro-chemical) stability when used in combination with aluminium alloys, particularly in humid or damp environments.

Cured Properties

Colour	Light tan
Density	2.0gcm ⁻³
Hardness	65 Shore A
Volume resistivity	<0.008Ω.cm
Tensile strength	1.7MPa
Elongation (minimum before break)	100%
Compression set – 72 hours at 100°C	<25%
Service temperature range	-55°C to 160°C



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Shielding Effectiveness

200kHz (H field)	79dB
100MHz (E field)	105dB
500MHz (E field)	108dB
2GHz (Plane wave)	102dB
10GHz (Plane wave)	110dB

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-SA001) 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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