

CEM-SG001 ELECTRICALLY CONDUCTIVE SILVER PLATED GLASS FILLED SILICONE ELASTOMER

Product overview

CEM-SG001 is an electrically conductive composite material comprising of silicone elastomer and silver plated glass 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-SG001 also exhibits excellent galvanic (electro-chemical) stability with aluminium substrates, particularly in humid or damp environments.

Cured Properties	
Colour	Tan
Density	1.9 gcm ⁻³
Hardness Range	30-80 Shore A Standard 70 Shore A
Volume resistivity	<0.008Ω.cm
Tensile strength	1.0MPa
Elongation	120%
Compression set – 72 hours at 100°C	<30%
Service temperature range	-55°C to 160°C

**CEM-SG001 ELECTRICALLY CONDUCTIVE SILVER PLATED GLASS
FILLED SILICONE ELASTOMER****Shielding Effectiveness**

100kHz (H field)	100dB
100MHz (E field)	100dB
500MHz (E field)	100dB
2GHz (Plane wave)	90dB
10GHz (Plane wave)	90dB

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-SG001). Gaskets and sheet material can be supplied with a self adhesive backing to assist installation / assembly.

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