

CEM-S001 ELECTRICALLY CONDUCTIVE SILVER FILLED SILICONE ELASTOMER

Product overview

CEM-S001 is a low density, electrically conductive composite material comprising of silicone elastomer and pure silver 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-S001 also exhibits excellent galvanic (electro-chemical) stability, particularly in humid or damp environments.

Cured Properties	
Colour	Light tan
Density	1.8 gcm ⁻³
Hardness Range	30-80 Shore A Standard 45 Shore A
Volume resistivity	<0.008Ω.cm
Tensile strength	1.5MPa
Elongation (minimum before break)	100%
Compression set – 72 hours at 100°C	<35%
Service temperature range	-55°C to 160°C

**CEM-S001 ELECTRICALLY CONDUCTIVE
SILVER FILLED SILICONE ELASTOMER****Shielding Effectiveness**

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

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-S001). Gaskets and sheet material can be supplied with a self adhesive backing to assist installation / assembly.

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