



## TECHNICAL DATA SHEET

### SHIELDING SOLUTIONS ECT-ASMR001 ELECTRICALLY CONDUCTIVE SILICONE/ACRYLIC CONDUCTIVE TRANSFER TAPE

#### Product overview

ECT-ASMR001 is a conductive adhesive transfer tape that combines both conductive pressure sensitive silicone and acrylic adhesives on opposite sides of a conductive woven mesh interlayer. The mesh acts as a reinforcement improving handling characteristics particularly when in applications where the material is pre-cut into intricate or thin section profiles. It also has the benefit of enhancing electrical performance in all 3 axes. The main advantage of this tape is that it allows two conductive materials or surfaces to be bonded where one of those surfaces does not readily adhere i.e. materials having a low surface energy such as some polymers

#### Main features

- Stable low resistance connection between conductive surfaces
- Easy attachment of dissimilar conductive materials/substrates
- Silicone adhesive ideally suited to bonding silicone based electrically conductive elastomer materials to metal or conductive paint coated surfaces e.g. EMI gaskets to enclosures
- Acrylic adhesive side provides reliable bonding to metal and conductive paint substrates
- Very good resistance to oxidation/ageing
- Fine mesh reinforcement enables reliable die-cutting and handling
- Vibration resistant



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#### Material Properties

Colour	Grey
Total thickness (includes both release films)	0.25mm
Adhesive layer thickness	0.10mm
Silicone adhesive release film thickness	0.05mm
Silicone adhesive release film thickness	0.10mm
Mesh	Nickel plated PET
Adhesive peel strength	1.5Ncm <sup>-1</sup>
Surface resistance	0.2 Ω/□
Z axis (through sheet) resistance	<0.1 Ω cm <sup>-2</sup>
Service temperature range	-25°C to +85°C

The above data are typical values that are indicative of material performance and as such should not be used as the basis of a specification.

#### Format

ECT-ASMR001 is available up to 1000mm wide but can be slit to any required width (subject to minimum run quantity) Alternatively this material can also be supplied in pre-cut profiles to suit your application.



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#### Product notes

To the best of our knowledge the information contained in this data sheet is accurate and representative of the product, however, it is the responsibility of the user to determine the suitability, safety and legality of use in any application

We recommend that the end user performs an evaluation to determine the suitability of the product in their application

This product is not intended for direct use in food, medical and cosmetic applications

The values shown on this data sheet are typical and should not be used as a basis of a specification

Information supplied as to the suggested applications for this product should not be construed as constituting a license or concession to infringe any patent. Furthermore we cannot warrant that the sale or use of this product will not infringe any patent involving any application of this product either on its own or in combination with other materials or process



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