



Foam per EN 61340-5

"All generators of electrostatic charges, such as untreated plastic films, foams, synthetic fibres, adhesive tapes, etc., must be prohibited for use as intimate or proximity packaging material and should be kept away from the EPA (ESD Protected Area)". (EN 61340-5-2 section 6)

Inserting terminals in conductive foam will bring all terminals to the same charge level or equipotential protecting the device from a discharge.

"There are two basic points which should be followed throughout:

- only minimal charge, field, or potential should be generated inside an EPA, or should be allowed to come into contact with, or into close proximity to, any ESDS [ESD sensitive items];
- where a charge, field or potential is obtained then it should be removed in a controlled manner.

The most efficient manner of following the two above mentioned basic points in most applications is to provide a resistive path (usually 1 megohm to several tens of megaohms) between an equipotential point and operator, equipment and ESDS. This will allow a controlled current path and will prevent any potential build up." (EN 61340-5-2 DD1 Methods)

- A. Vermafoam high-density (HD) is polyether polyurethane foam impregnated with rigid conductive latex.
- B. The HD type has outstanding "pin insertion" properties. It is used to hold devices in place.
- C. Corrosion prone non-ferrous metals such as Zinc, Nickel etc are not corroded when in direct or vapour contact with these conductive foams, even at elevated temperature and humidity.

Property	Value	Test Method
Density kg/m <sup>3</sup>	35-55	BS 4443 Pt 1 Method 2
Tensile Strength kPa	70 Minimum	BS 4443 Pt 1 Method 3A
Loss in Tensile Strength After Heat Ageing (%)	30% Max Loss	BS 4443 Pt 1 Method 3A 140°C for 16 hours
Loss In Tensile Strength After Humidity Ageing (%)	30% Max Loss	BS 4443 Pt 1 Method 3A 105°C for 3 hours
Volume Resistivity (ohms/m)	≤ 2.5 x 10 <sup>2</sup>	BS 2044 Method 3 (100 Volts)
Surface Resistance (ohms)	1 x 10 <sup>2</sup> ≤ 1 x 10 <sup>5</sup>	IEC 61340-2-3

Item	Description
815-3503	Conductive Pin-Insertion Foam, 6mm x 1m x 1m, Sheet
815-3509	Conductive Pin-Insertion Foam, 6mm x 305mm x 305mm, Pack of 9



Made in the United Kingdom

Unless otherwise noted, tolerance ±10%

Specifications and procedures subject to change without notice.



## Conductive Pin-Insertion Foam

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**Drawing Number**  
**RS-815-3503**

**DATE:**  
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