

Antistatic Foam

Foam

Description

Antistatic foam – excellent cushioning with exceptional mechanical and electrical protection. Bondline provides a range of different types of foam including black conductive, pink anti-static, blue static-dissipative and black closed cell (cleanroom) foams. Foam is great to use to protect electronic components (such as PCBs) in storage devices. Foams can be cut, stamped, layered, profiled or machined to produce economic trays or inserts to suit numerous packaging requirements. Each foam is RoHS and REACH compliant and complies with IEC-61340-1-5 International Standard. Foam is made in U.K.



Manufactured in the United Kingdom

The Problem

As you may know, Static Sensitive Devices (SSD's) are particularly vulnerable to damage from static charged human contact. Personnel handling these devices are generally unaware that walking across a floor or simply the friction of clothing can build up massive charges of 1000's of volts which will destroy the chip at a touch. Even protective circuitry does not necessarily protect the device from static charges encountered during routine handling and packaging.

Warning

The answer is to use Electrically Conductive Foam to protect these devices. But, as in medicine, the cure can sometimes be as harmful as the ailment. The materials used in the construction of SSD's, including non-ferrous metals, are highly susceptible to corrosion which can cause irreparable damage during periods of storage. It is therefore, of vital importance that any conductive foam used for handling, packaging and storing of SSD's should be NON-CORROSIVE, and built to the most demanding specifications.

The Solution

A British Company has developed obtained Ministry of Defence, and other approvals, for two grades of non-corrosive electrically conductive foam. Both materials provide maximum protection to SSD's from static discharge and physical damage in storage transportation and operation. VCF conductive foams are treated as safety critical items, and each consignment is manufactured and tested in accordance with the requirements of Defence Standard 05-24.





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	M.O.D. SPECIFICATION	TYPICAL VALUE LOW DENSITY	TYPICAL VALUE HIGH DENSITY
Volume Resistivity	250 max	36.6	56.2
Corrosivity g/m2			
Vapour	15 max	5.9	4.9
Contact	15 max	7.2	6.6
Compression Set % (50% compression)	30 max	10.5	22.4
Water Extract ph	5.5min	7.8	7.6
	8.0 max		
Conductivity of Water mS/m	30 max	18.6	22.6
Water Soluble Chloride %	0.03 max	0.003	0.003
Total Chlorine %	0.4 max	0.32	0.34

Corrosion Resistance

Numerous tests in both our own and government accredited laboratories verify compliance with the most demanding specifications. The most corrosion prone nonferrous metals such as zinc, nickel etc., are not corroded when in direct contact or in vapour contact with conductive foams even at elevated temperatures and humidities.

Compression Set Resistance

The compression set indicates the ability of the foam to retain its original shape and dimensions after being subjected to long term deformation.

Selecting Your Antistatic Foam

To make an enquiry, please contact us on 01793 511000 or email us at sales@bondline.co.uk.





Eliminate Costly Static Damage...

Whether you are experiencing unacceptable levels of damage in transit, need a specific cleanroom solution or simply don't know which ESD safe equipment is best for you, we can help!

Request complimentary, no obligation advice by speaking with one of our technical experts today.

