Description:
Statfree® Conductive Foam can be used to protect ESD susceptible devices from ESD and physical damage, in a variety of electronics industry applications. Statfree® Conductive Foams are suitable for protection of static susceptible devices and assemblies. Use for shunting of component leads (IC, PCB and other static sensitive components).

High Density: Foam accommodates IC chips, printed circuit boards and other static susceptible electronic devices for lead insertion. When all leads are inserted in foam, terminals are brought to electrical equipotential, and exposure to electrostatic discharge is minimized.

High Density Cross Link: Foam is an IC insertion high grade conductive closed-cell cross linked polyethylene foam. This product exhibits excellent non-sloughing characteristics, so it is an excellent choice for clean and other critical environments.

Electrical Properties*:
- Surface Resistivity: $10^3$ - $10^5$ ohms per ASTM-D257
- Volume Resistivity: $10^3$ - $10^5$ ohms per ASTM-D257
- Charge Decay: Less than 0.05 seconds from 5KV per FTMS 101C, Method 4046.1

Specifications:
- Construction:
  - High Density -- Polyurethane open cell, carbon/acrylic impregnated.
  - Cross Linked -- Polyethylene closed cell extruded cross linked.
- Corrosion Resistance: per MIL-STD 883C, Method 1004.2

<table>
<thead>
<tr>
<th>Density (approx.)</th>
<th>High Density</th>
<th>Cross Link</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 lb./cu.ft.</td>
<td>3.1 lb./cu.ft.</td>
</tr>
<tr>
<td>Tensile Strength:</td>
<td>20 psi, min.</td>
<td>85 psi</td>
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<tr>
<td>Tear Resistance:</td>
<td>2.15 lbs.</td>
<td>16 lbs.</td>
</tr>
<tr>
<td>Elongation:</td>
<td>150%</td>
<td>50%</td>
</tr>
<tr>
<td>Recommended Operating Temp. Range:</td>
<td>-20°F to +250°F</td>
<td>-95°F to +200°F (within 24 hr exposure period)</td>
</tr>
</tbody>
</table>

Tolerance ±1/2" on both length and width.

Special and die cut sizes available on a quotation basis.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Sheet Size (in)</th>
<th>Item No.</th>
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<tbody>
<tr>
<td>1/4</td>
<td>24 x 36</td>
<td>12250</td>
</tr>
<tr>
<td>3/8</td>
<td>24 x 36</td>
<td>12350</td>
</tr>
<tr>
<td>1/2</td>
<td>24 x 36</td>
<td>12450</td>
</tr>
<tr>
<td>3/4</td>
<td>24 x 36</td>
<td>12550</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH DENSITY CROSS LINKED</th>
</tr>
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<tbody>
<tr>
<td>1/4</td>
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</tbody>
</table>

*Independent test reports available upon request.

Made in America
MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFICATION
Product Trade Name: Statfree® Conductive Foam
Chemical Family: Polyolefin
Chemical Name: Polyethylene Foam
Other Names: LD Conductive (CN) or Static Dissipative (SD) Grades
CAS Name & Number: Polyethylene CAS 9002-88-4
Carbon Black CAS 1333-88-4
Appearance: Black closed cell foam
Odor: None at ambient temperature
Intended Uses: Conductive packing

THE MAIN HAZARD
In the event of fire, the foam can ignite and burn. Burning can be accompanied by the release of flaming droplets of polymer.

EMERGENCY & FIRST AID PROCEDURES
If this happens Do this
Fire Spray with water
Product in eye Irrigate with water
Product on skin Not applicable
Product ingested Rinse mouth with water and obtain medical attention
Product inhaled Not applicable
Spillage Treat as garbage

COMPOSITION
Crosslinked polyethylene: 90-93%
Carbon black: 7-10%

HEALTH HAZARD INFORMATION
Occupational exposure limits: None
Health Effects:
On Eyes: May cause irritation if heated without adequate ventilation
On Skin: Foam is not considered to be a skin irritant, but under some circumstances foam can have a minor abrasive action on skin.
By Ingestion: Material is inert, but ingestion should be avoided.
When Inhaled: There is no release of fumes at normal ambient temperature.
Additional Medical Information: None

FIRE & EXPLOSION DATA
Flash Point (°C): Not applicable
Auto Ignition (°C): 365 ATMD D 1928-77
Flammable Limits (% v/v): Not applicable

REACTIVITY
Stability: Generally inert, but will react with oxidizing agents at elevated temperatures
Incompatibility: None
Hazardous Decomposition and Combustion Products: Carbon monoxide, acrolein and other aldehydes may be evolved when combustion occurs under low oxygen conditions.

PHYSICAL DATA
Density: 0.92 g/cc (polymer)
Vapor Liquid (Air = 1): Not applicable
Bulk Density (kg/m³): Nominal densities vary from 30 Kg/m³ to 50 Kg/m³
Boiling Point (°C): Not applicable
Freezing/Melting/Pour Point (°C): Not applicable
Coefficient of Cubical Expansion (per °C): Varies with temperature and time. Will expand first and then shrink.
Vapor Pressure (mbar): Not applicable
Solubility: In water - NIL. Partially soluble in hot hydrocarbon or halogenated solvents.
Viscosity (cP): Not applicable
Electrostatic Generation: Static is rapidly dissipated
Equilibrium Vapor Concentration (in air): Not applicable

HANDLING & STORAGE
Handling and Storage Materials:
Unsuitable: NA
Suitable: Shrink or stretch wrap containers
Handling & Storage Precautions: Store at ground level away from direct sunlight and heat sources
Recommended Protection: NA

Disclaimer: This Safety Data Sheet was prepared to protect against any reasonable exposure to consumers or employees arising out of the intended use of the product and to provide them with information regarding potential hazards contained in the product. Under varied circumstances the hazardous ingredients may pose a lesser or greater hazard. Because of the scientific data contained in these sheets was obtained from test performed by agencies other than the Manufacturer. The company cannot guarantee its accuracy. The Manufacturer makes no warranty of any kind, expressed or implied. The user must assume all risk and liability resulting from reliance on the information contained on this Material Safety Sheet and the use of this product, whether used in combination with other products or singularly.