FIP200
Form-in-Place EMI Shielding Material

FIP200 is a single component moisture cure EMI shielding material filled with Ag/Cu particles. FIP200 has been designed to protect electrical devices from electromagnetic interference in harsh environments.

- Environmentally friendly, low odour
- Fast cure, high dispensing performance
- Excellent corrosion resistance on Cr(III), Cr(VI) and Al.
- Flame retardant; meets UL94 V-0

Approvals
- RoHS Compliant (2015/863/EU): Yes
- UL Approval: Meets UL94 V-0

Typical Properties

<table>
<thead>
<tr>
<th>Liquid Properties:</th>
<th>Cured System:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Material</td>
<td>Cured Density (g/ml)</td>
</tr>
<tr>
<td>Conductive Filler</td>
<td>2.3</td>
</tr>
<tr>
<td>Cure System</td>
<td>Volume Resistivity (ohm-cm)</td>
</tr>
<tr>
<td>Touch Dry Time @ 25 °C, 50% RH</td>
<td>0.006</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Shore Hardness @ 25°C</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Shielding Effectiveness (dB 1GHz to 20GHz)</td>
</tr>
<tr>
<td></td>
<td>Flame Retardancy</td>
</tr>
<tr>
<td></td>
<td>Meets UL94 V-0</td>
</tr>
<tr>
<td></td>
<td>Elongation</td>
</tr>
<tr>
<td></td>
<td>130%</td>
</tr>
<tr>
<td></td>
<td>Tensile Strength (MPa)</td>
</tr>
<tr>
<td></td>
<td>1.6</td>
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<tr>
<td></td>
<td>Compression Set @ 85°C (%)</td>
</tr>
<tr>
<td></td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Adhesion, Bare Al (N/cm)</td>
</tr>
<tr>
<td></td>
<td>&gt;10</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Packaging</th>
<th>Order Code</th>
<th>Shelf Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form-in-Place EMI Shielding Material</td>
<td>300ml Syringe</td>
<td>FIP200_30S</td>
<td>6 months (Stored below 0°C)</td>
</tr>
</tbody>
</table>
Directions for Use

Low temperature storage (below 0°C) is required, FIP200 should be left to thaw at ambient temperature for 2 to 4 hours before use. Ensure surfaces are clean, dry and free from grease and dust before use. FIP200 can be used in automated robotic dispensing equipment. The elastomeric material can be precisely positioned into narrow gasket beads of 0.8 x 1.0 mm or less. FIP200 shows good adhesion to Aluminium and cures with atmospheric moisture.

Revision 3: Jan 2019