**PRODUCT DATA SHEET**

**HSMF**

**Thermal Interface Material**

**Introduction**

HSMF thermal interface material is a departure from our metallic TIM offering in that it is a non-silicone-based polymer. In order to supply this type of product to the industry, we required that it meet some specific criteria. This material resists pump-out and bake-out, performs better over time, and is easy to use. HSMF material meets these requirements. This rounds out Indium Corporation’s offering to provide a full range of TIM materials.

**About this Product**

**HSMF** is a compressible material for use in a wide range of applications requiring thermal transfer. Large area thermal interface requirements, such as IGBTs, benefit from the .010” thickness. This is also helpful for die-cast heat-sinks with poor planarity. Assembly is efficient as this material has an inherent adhesive property, allowing for ease of placement. **HSMF** cleans up with IPA, making rework easy. Improved performance is ideal for long-life reliability as this material does not pump-out or bake-out in use over time. This material is electrically conductive.

**HSMF** products come with a release liner to protect the polymer layer. Be sure to remove the release liner before placement.

**Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure</td>
<td>10psi minimum to 500psi</td>
</tr>
<tr>
<td>Maximum Operating Temperature</td>
<td>175°C</td>
</tr>
<tr>
<td>Thickness</td>
<td>100, 150, and 250 microns</td>
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</table>

**Storage and Packaging**

**HSMF** can be provided in a variety of packaging configurations, depending on volume and size. If automation is required, tape & reel packaging is available.

Shelf life is 5 years in unopened packaging.

Unused material should be stored in original packaging.

**Safety Data Sheets**

The SDS for this product can be found online at http://www.indium.com/sds

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**From One Engineer To Another**

Contact our engineers today: askus@indium.com

Learn more: www.indium.com

ASIA +65 6288 8678 • CHINA +86 (0) 512 628 34900 • EUROPE +44 (0) 1908 580400 • USA +1 315 853 4900