

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

Pressure	10psi minimum to 500psi
Maximum Operating Temperature	175°C
Thickness	100, 150, and 250 microns

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.

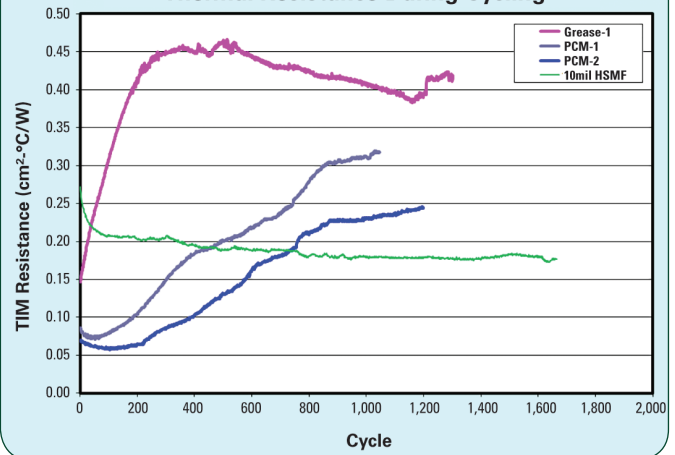
Shelf life is 5 years in unopened packaging.

Unused material should be stored in original packaging.

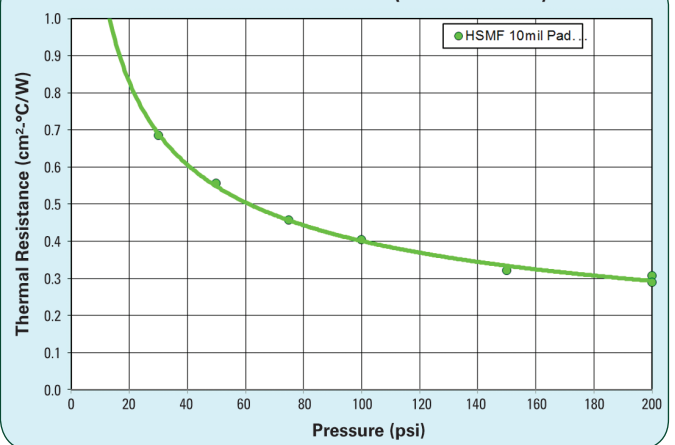
Safety Data Sheets

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

Thermal Resistance During Cycling



Thermal Resistance (ASTM D5470)



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