

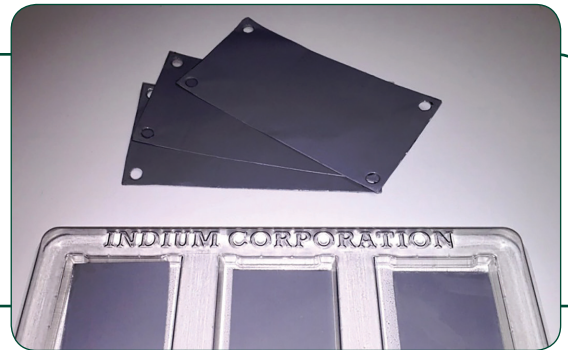
# PRODUCT DATA SHEET

# 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. This material is silicone-free.

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

Mechanical and Physical	
Color	Dark gray, aluminum backer
Hardness	Grease is compliant @ 10psi
	Aluminum backer 310MPa
Thickness Range	100, 150 microns ± 12.5 microns
Pressure	10psi minimum to 500psi
Maximum Operating Range	-40–175°C

### Storage and Packaging

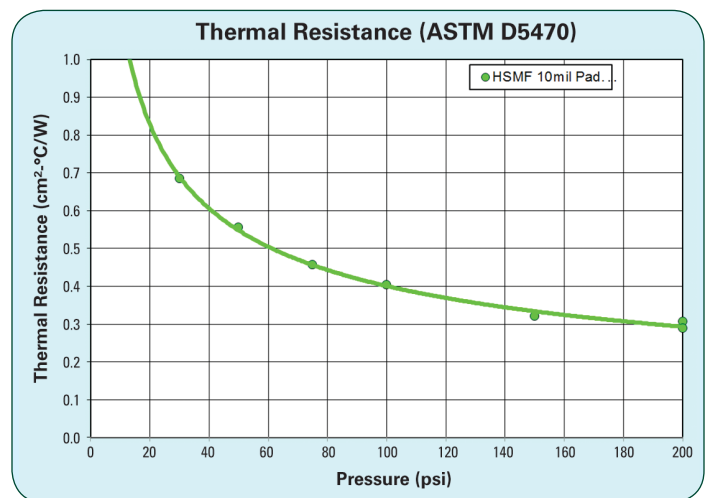
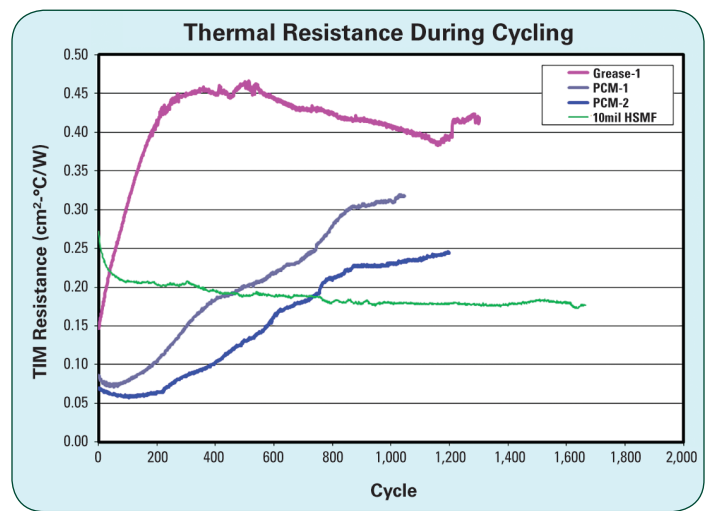
**HSMF** can be provided in a variety of packaging configurations, depending on volume and size. If automation is required, tape & reel packaging is available.

Shelf life is 5 years in unopened packaging.

Unused material should be stored in original packaging resealed for up to 12 months at 18–20°C in 30–40% humidity.

### 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®

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