

# **Tpcm<sup>™</sup> 5000**High Performance TIM



## PRODUCT DESCRIPTION

Tpcm<sup>™</sup> 5000 is a new high-performance TIM in the Laird product offering. Tpcm<sup>™</sup> 5000 is designed to provide the best performance to price available. Tpcm<sup>™</sup> 5000 provides very low thermal resistance by coupling high thermal conductivity of 5.3 W/mK, minimal bondline thickness, and with superior wetting of the mating surfaces. Softening between 50°C − 70°C, the initial pad thickness can decrease to a bondline as thin as 25µm.

Tpcm<sup>™</sup> 5000 reliability has been demonstrated though exposure to 1000 hours of various aging tests resulting in proven dependability at an operating temperature of 125°C.

The specialty polymeric matrix offers superior pump out resistance when compared to thermally conductive greases and other phase change materials. Tpcm<sup>™</sup> 5000 has been formulated to provide just the right tack, remaining on liners yet easily removeable for application.

## **FEATURES & BENEFITS**

- 5.3 W/mK bulk thermal conductivity
- Cost effective
- Non silicone formulation that provides naturally tacky surface
- Fully characterized long term reliability
- No pump out
- Easy rework

## **AVAILABILITY**

- Tpcm 5125 = 0.125mm (~5mils)
- Tpcm 5200 = 0.200mm (~8mils)
- Tpcm 5250 = 0.250mm (~10 mils)
- Tpcm 5400 = 0.400mm (~16 mils)
- Sheets and Die Cuts on strips and rolls
- Production Volume Refer to "TIM Print Application Guide"

#### **MARKETS**

- · Semiconductor Packaging
- Graphics Card
- Notebooks
- Servers
- IGBTs
- AutomotiveMemory Modules
- Game Consoles

## **STORAGE CONDITIONS**

- Store in original packaging or a light-proof package
- Store at 15°C -35°C & maximum 50% RH
- Shelf Life: 1 year from date of shipment when stored at above conditions

## **TYPICAL PROPERTIES**

_

USA: +1.866.928.8181 Europe: +49.8031.24600 Asia: +86.755.2714.1166 www.laird.com

