

HIGH THERMAL CONDUCTIVITY, SILICONE FREE, THIN GAP FILLER

Slim TIM™ 10000 is a non-silicone, high performance thermal interface material designed for thin gap applications. It takes advantage of a novel, new chemistry enabling free standing, high thermal conductivity, thin gap fillers. Slim TIM 10000 is currently available in 0.125, 0.200, and 0.250 mm thicknesses, soon to be available at 0.075 and 0.500 mm.

Slim TIM 10000 utilizes a unique polymer chosen to maximize system performance. The specially designed polymer package:

- Enables free standing, thin films (no carrier film, e.g., PI, fiberglass)
- Minimizes contact thermal resistance while offering high thermal conductivity
- Is silicone free
- Survives multiple solder reflow operations (Pb-free solder reflow profiles)
- Allows easy rework, requiring minimal force to separate components
- Enables pre-application / pre-assembly to heat sinks, BLS or other substrates

FEATURES AND BENEFITS

- Free standing film
- High thermal performance
- Exceptionally low thermal resistance
- Silicone-free
- Solder reflow compatible (3X)
- High reliability
- Easy rework
- Naturally tacky (no PSA needed)

MARKETS / APPLICATIONS

- Handsets
- Tablets
- Notebooks
- Wearables
- Flat Panel Displays
- Hard Disk Drives
- Optical Components
- Graphics Cards
- Memory Module

TYPICAL PROPERTIES	Slim TIM 10000	TEST METHOD
Construction	Free Standing Film	
Color	Grey	Visual
Specific Gravity (g/cc)	2.52	Helium Pycnometer
Thermal Conductivity (W/mK)	5.5	Hot disk
Thermal Resistance (cm²°C/W)		
0.125 mm	0.452	ASTM D5470
0.200 mm	0.516	50°C, 5% deflection
0.250 mm	0.645	
Max Continuous Use Temp (°C)	125	
Solder Reflow Profile	Min 3x	J-STD-020D
Hardness (Shore 00)	80 for 3 seconds, 72 for 30 seconds	ASTM D2240
UL Flammability Rating (UL 94)	V0 (in progress)	UL94

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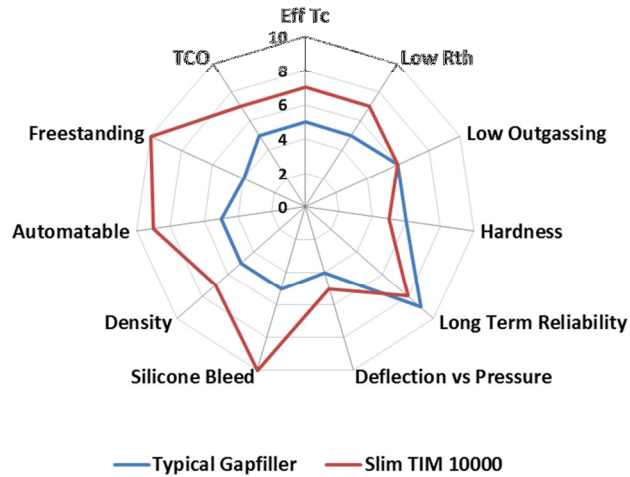
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THR-DS-Slim TIM, Preliminary 032117

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VALUE PROPOSITION (Gap Fillers < 250 microns)



APPLICATION METHOD

Lab Evaluation Method:

- Cut sample to desired shape
- Remove one liner from the material
- Place the material facing down onto the heat sink
- Start at one edge and force the air out from under the pad by rubbing with moderate finger pressure
- Remove the second liner by peeling from a corner by hand/tools
- Alternatively, apply tape to one corner of the pad at a 45 degree angle and lift the tape straight up quickly to remove the second liner
- Refer to “Slim TIM & IceKap Application Method – Tape & Peel” or “Slim TIM Directions for Use”

Production Volume Manufacturing:

- Slim TIM is designed for use with the TIM Print Application process
- Refer to “TIM Print Application Guide”

PRODUCT STORAGE CONDITIONS

- Store in original packaging or a light-proof package
- Store at 0-35°C and maximum 50% RH

SHELF LIFE

- 1 year from date of shipment when stored at above conditions

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