



PRODUCT DESCRIPTION

T-pcm™ AL52 is a thermally conductive phase change material coated on both sides of aluminum foil. At temperatures greater than 52°C, T-pcm™ AL52 melts, and with minimum pressure, wets the heat sink and component surfaces to create a very thin, low thermal resistance interface. T-pcm™ AL52 has great heat spreading characteristics and won't flow from the interface. T-pcm™ AL52 has superior thermal performance comparable to the thermal grease and many other phase change products available. Since it is a free-standing film, it is easy to handle and is a great replacement for messy grease. T-pcm™ AL52 is available as individual die cut parts, kiss cut parts on rolls or sheets, and uncut rolls. T-pcm™ AL52 is available with or without adhesive.

FEATURES & BENEFITS

- 2.0 W/mK thermal conductivity
- Excellent heat spreading
- Non silicone
- Cost effective
- No pump out
- Easy rework

MARKETS

- Semiconductor Packaging
- Graphics Card
- Notebooks
- Servers
- IGBTs
- Automotive
- Memory Modules
- Game Consoles

AVAILABILITY

- Sheets and Die Cuts
- Uncut rolls
- With Adhesive coating
- Alternate PCM coating thicknesses

STORAGE CONDITIONS

- Store in original packaging
- Store at 15°C - 30°C & maximum 50% RH
- Shelf Life: 1 year from date of shipment when stored at above conditions

TYPICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
Construction	Wax based PCM coated on aluminum foil	N/A
Color	Light Grey	Visual
Thickness & Tolerance	0.075±0.025mm	
Density	2.1 g/cc	Helium Pycnometer
Thermal Conductivity	2.0 W/m-K	Hot Disk
Thermal Resistance 10 psi & 70°C	<0.25°C-cm²/W	ASTM D5470
Operating Temperature Range	-40°C to 125°C	Laird Test Method
Melting Point	52°C	Laird Test Method
Minimum Bondline Thickness	50µm	Laird Test Method
UL Recognition	V0	UL94

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