



T-pcm™ AI-52

(Formerly Thermaphase® on Aluminum Foil)

T-pcm™ AI-52 is a thermally conductive phase change material coated on both sides of aluminum foil. At temperatures greater than 52°C, T-pcm™ AI-52 changes into a molten state and, under low closure force, wets the heat sink and component surfaces to create a very thin, low thermal resistance interface. T-pcm™ AI-52 has great heat spreading characteristics and won't flow from the interface. T-pcm™ AI-52 has superior thermal performance comparable to the highest performing grease and 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™ AI-52 is available as individual die cut parts, kiss cut parts on rolls or sheets, and uncut rolls. T-pcm™ AI-52 is available with or without adhesive.

Typical Properties	
Color	Gray
Thickness Inches (millimeters)	0.003" (0.076mm)
Standard Coating Thickness per side	0.0005" (0.013mm)
Density	2.1 g/cc
Shelf Life	Indefinite
UL Flammability Rating	94 V0
Maximum Use Temperature	200°C
Phase Change Softening Temperature	52°C
Thermal Impedance	
	5 psi
	0.03 °C-in ² / W
	34.5 Kpa)
	0.193 °C-cm ² /W

Thermaphase® is a registered trademark of Laird Technologies, Thermal Products Division
 U.S. Patent Numbers 5,930,893 and 6,286,212

Cool Components make for Cool Products
 Our complete line of Thermal Interface Products can cool just about any application
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