



Tpcm™ AL52

Tpcm™ AL52 is a thermally conductive phase change material coated on both sides of aluminum foil. At temperatures greater than 52°C, Tpcm™ AL52 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. Tpcm™ AL52 has great heat spreading characteristics and won't flow from the interface. Tpcm™ AL52 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.

Tpcm™ AL52 is available as die cut parts or sheets. Tpcm™ AL52 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 U.S. Patent Numbers 5,930,893 and 6,286,212