

## Item # AL-52 /, Tpcm™ AL-52 Phase Change Material



### Tpcm™ AL-52 Phase Change Material

Tpcm™ AL-52 is a thermally conductive phase change material coated on both side of aluminum foil. At temperature greater than 52°C, Tpcm™ AL-52 changes into a molten state and, Under low closure force, wets the heat sink and component surface to create a very thin thermal resistance interface.

Tpcm™ AL-52 has great heat spreading characteristics and won't flow from the interface. Tpcm™ AL-52 has superior thermal performance comparable to the highest performing grease and phase change products available. Tpcm™ AL-52 is easy to handle and is a great replacement for messy grease.

Tpcm™ AL-52 is available as individual die cut parts, kiss cut parts on rolls or sheet and uncut rolls. Tpcm™ AL-52 is available with or without adhesive.

## SPECIFICATIONS

Color	Gray
Thickness	0.076 mm 0.003 in
Standard Coating Thickness per side	0.0005 in 0.013 mm
Density	2.1 g/cc
Shelf Life	Indefinite
UL Flammability Rating	94 V0
Max. Use Temperature	200 °C
Phase Change Softening Temperature	52 °C
Thermal Impedance at 5 psi	0.03 °C-in <sup>2</sup> /W
Thermal Impedance at 34.5Kpa	0.193 °C-cm <sup>2</sup> /W