

## ThermaCool® C1100 Series Phase Change Material

ThermaCool® C1100 Series high performance phase changing compounds are self adhering to heat sinks at room temperature. This adhesive quality also creates a conformable interface between the sink and MPU, dramatically improving heat transfer. These materials can be supplied in a number of formats to meet a wide range of performance applications.

### Features/Benefits

- Different formats allow tailoring to specific applications
- **C1100**—Excellent thermal transfer in all formats providing best in class performance
- **C1100F**—Unique tab design allows for easy in re-workability without damage to sensitive components
- Die cut to size parts enable rapid pick-and-place assembly
- Advanced phase change formulation allows rapid “burn in” and prevents thermal overshoots or spikes
- Intrinsically tacky formulation does not require heating of heat sink during assembly

### Typical Properties

Property	C1100	C1100F	Test Method
Colour	White	White/Silver	—
Backing	None	Thin-gauge Aluminium	—
Thickness mm (in.)	0.076 (0.003)	0.102 (0.004)	ASTM D374
Phase Change Temperature °C	35	35	
Thermal Conductivity W/m <sup>-1</sup> K <sup>-1</sup>	1.0	1.0 Compound Only	ASTM E1530
Thermal Impedance °C in. <sup>2</sup> /W	0.03	0.05	ASTM E1530
Thermal Resistance °C/W	0.07	0.17	SGPPL Method
Bond Line Adhesion kPa (psi)	Application Dependent	0	ASTM D897-00
Adhesion to Steel g/cm	49	49	PSTC-1

**Applications**—C1100 Series may be used as a replacement for thermal greases where low thermal impedance, thin bondlines and electrical isolation are required. C1100 Series is ideal for use in:

- Computers (MPU/heat sink)
- Displays
- Electronic modules for power devices
- Microelectronics
- Telecommunications

**Availability**—This high performance thermal management compound can be supplied in several formats:

- **C1100**—Free standing film on a tabbed bandoleer for easy application.
- **C1100F**—Foil backed film to prevent sticking to the internal heat spreader for improved shock and vibration performance.

Both **C1100** and **C1100F** are supplied as die cut parts on a bandoleer roll, tabbed for convenient application.

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