

ThermaCool® C1095-X01

Phase Change Material

ThermaCool® C1095-X01 is a thermally conductive polymeric interface material designed specifically for application requiring a thermal interface material (TIM) that will not create any bond line adhesion between a heat sink or other heat dissipating device and the metal case surface of a microprocessor (MPU) or other heat generating device.

Features/Benefits

- High adhesion allows quick and easy application to heat sink at room temperature
- High conformability and flexibility allows for uniform fill of interface interstices
- Thin, conformable film-like barrier prevents bond-line adhesion and hence allows re-workability without damage to sensitive components
- Die cut to size parts enable rapid pick-and-place assembly

Typical Properties

Property	C1095-X01	Test Method
Colour	Pink	—
Adhesive	Thermally Conductive Synthetic Resin	—
Thickness mm (in.)	0.076 (0.003)	ASTM D374
Phase Change Temperature °C	50	—
Thermal Conductivity W/m ⁻¹ K ⁻¹	0.6	ASTM E5470
Thermal Impedance °C in. ² /W	0.13	In Situ
Bond Line Adhesion kPa (psi)	Material will not adhere to metal case surface with thermal burn in conditions of 130°C, 100kPa (16 psi), and 24 hr. or longer.	ASTM D897-00
Adhesion to Steel g/cm	59	PSTC-1

Applications—ThermaCool® C1095-X01 may be used as a replacement for thermal greases where low thermal impedance and electrical isolation are required. Prevents permanent bond between heat sink and processor. C1095-X01 is ideal for use in:

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

Availability—The product is supplied die cut to size, in a roll form on a bandoleer carrier with a top protective tabbed liner.

Saint-Gobain Performance Plastics sales, fabrication and distribution facilities are situated at the following locations:

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