

# C1095-X01

## Phase Change Thermal Interface Materials

Saint-Gobain Performance Plastics **ThermaCool® C1095-X01** is a thermally conductive polymeric interface material designed specifically for applications 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.

### Physical Properties

Property	Test Method	C1095-X01
Color	Visual	Pink
Adhesive	—	Thermally Conductive Synthetic Resin
Thickness (mils)	ASTM D374	3.0
Phase Change Temperature (°C)	E1530	>50
Thermal Conductivity (W/mK)	ASTM D5470	0.6
Thermal Impedance (°C in. <sup>2</sup> /W)	In Situ (tested in actual operating system)	0.13
Bond Line Adhesion (psi)	ASTM D897-00	Material will not adhere to metal case surface with thermal burn in conditions of 130°C, 16 PSI, and 24 hr. or longer.
Adhesion to Steel (grams/inch)	PSTC-1	150

All properties are typical values and should not be used for writing specifications.  
US Patent Number 6,391,442 with others pending.

### Recommended Uses

ThermaCool® C1095-X01 may be used as a replacement for thermal greases where low thermal resistance and electrical isolation are required. Prevents permanent bond between heat sink and processor.

### Availability

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

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### 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

### Applications

- Computers (MPU/heat sink)
- Microelectronics
- Displays
- Telecommunications
- Electronic Modules for Power Devices

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