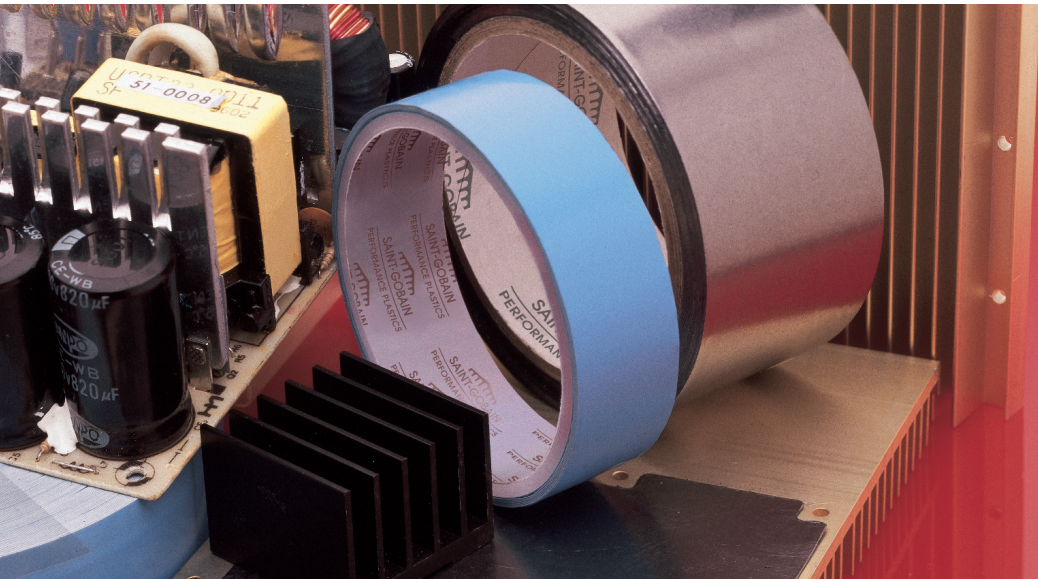


ThermaCool™ Thermal Management Materials



The ThermaCool™ family of high performance thermally conductive PSA tapes provide solutions to difficult thermal management problems. These products can be used in place of mechanical fasteners, provide excellent thermal coupling between components and heat sinks and can accommodate materials of different coefficients of thermal expansion with the compliant interface. All of the adhesives are flame retardant and are formulated for high performance adhesion while still being easily re-workable without damage to sensitive components.

Products and Description

- **KAPTON Tapes:** Thermally conductive and electrically isolating
 - **K271** — One side adhesive coated Thermal Kapton MT® tape
 - **K275** — Two side adhesive coated Thermal Kapton MT® tape
- **Metal Foil Tapes:** Thermally conductive metal foil tapes
 - **C675** — Aluminum foil with acrylic thermally conductive adhesive
- **Grafoil® Tapes:** Thermally conductive flexible graphite tape
 - **C695** — Graphite tape with acrylic thermal adhesive on one side
- **Thermally Conductive Transfer Adhesives**
 - **TR3 & TR5** — Thermally conductive acrylic adhesives

Simply the coolest
**THERMA
COOL™**

Thermally Conductive Tapes

Typical Applications

- Bonding heat sinks to ceramic or metal packaged microelectronic components on circuit boards
- Electrically isolating components while providing good thermal transfer to heat sinks or back planes
- Providing bonding methods for materials that are supplied without adhesive for ease in assembly
- Replacing mechanical fasteners with a powerful bonding system that allows rapid assembly

Key Product Properties

- Thermally conductive ceramic filled acrylic adhesive system with integral Flame retardant package used on all products
- Silicone adhesive system is available for special applications
- Low thermal impedance and good thermal conductivity provides superior heat transfer performance
- Allows thermal expansion differences between electrical components and dissipation devices to be easily accommodated while maintaining high thermal transfer rates
- Provides ease of component assembly and allows rapid re-work
- Can be easily die cut for simple, low-cost application

Other Thermal Management Products

- **Thermally Conductive Fabrics**—Fabric reinforced silicone polymer sheets used to provide thermal management solutions where interface gaps are less than 15 mils.
- **Gap Fillers**—Conductively filled silicone polymer sheets used to provide thermal management solutions where interface gaps are greater than 10 mils.
- **Phase Change Materials**—High performance systems to be used in the microelectronics area to conduct heat from microprocessors and other miniature electronic components

Thermal Tapes

Description	ThermaCool	Chomerics	Bergquist
Graphite foil with 1 side PSA	C695	N/A	N/A
Aluminum foil with 2 side PSA	C795	Thermattach T405, T412	Q-Pad II
MT Kapton with 2 side PSA	K275	Thermattach T404, T414	Bond-Ply 660
MT Kapton with 1 side PSA/1 side silicone	K271	ChoTherm 1680	Sil-Pad K4, K6
Transfer Adhesives	TR3 & TR5	Thermattach T413	Bond-Ply 100



ThermaCool™ is a trademark.

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