

C675

Thermally Conductive Aluminum Tape

Saint-Gobain Performance Plastics **ThermaCool® C675** is a thermal material constructed of 2 mil aluminum foil coated on both sides with 2 mils of thermally conductive acrylic pressure-sensitive adhesive. C675 is provided in roll form with a release liner on both sides for ease of application. The product was designed to bond electrical components to heat sinks.

Physical Properties

Property	Test Method	C675
Color	Visual	Aluminum
Thickness (mils)	ASTM D1000	6.0
Tensile Strength (psi)	ASTM D1000	500
Thermal Conductivity (W/mK)	ASTM E1530	2.0
Thermal Impedance @ 10 psi (°C in. ² /W)	ASTM E1530 @ 10 psi	0.10
Operating Temperature Range (°F)		-20 to 300
Adhesion to Steel (oz./in.)	ASTM D1000	30
Adhesion to Liner (oz./in.)	ASTM D1000	8

All properties are typical values and should not be used for writing specifications.

Recommended Uses

It is the standard interface for microprocessor and heat sink applications, ideal where electrical isolation is not a concern.

Availability

Available in slit-rolls up to 36" wide.

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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Features/Benefits

- PSA adhesive is designed to exhibit excellent thermal properties at application pressures as low as 10 psi.
- Aluminum core provides excellent heat transfer and spreads heat efficiently
- Material can be pre-attached to a heat sink or CPU to provide simplified assembly
- Adverse effects of surface roughness are minimized with the highly conformable pressure-sensitive adhesive

Applications

- Bonding components to heat sinks where electrical isolation is not a concern

Saint-Gobain Performance Plastics Corporation

717 Plantation Street
Worcester, MA 01605
Customer Service: (508) 595-3023
Tel: (508) 852-3072
Fax: (508) 852-3759

www.fff.saint-gobain.com

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AFF-1272-PDF-0705-SGCS