

# ThermaCool®

## Thermal Interface Materials

### ThermaCool® C675

#### Thermally Conductive Aluminum Tape

ThermaCool® C675 is a thermal material constructed of 0.05mm aluminum foil coated on both sides with 0.05mm 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.

#### Features/Benefits

- PSA adhesive is designed to exhibit excellent thermal properties at application pressures as low as 69kPa
- 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

#### Typical Properties

Property	C675	Test Method
Colour	Aluminium	—
Thickness mm (mils)	0.152 (6.0)	ASTM D1000
Tensile Strength MPa (psi)	3.45 (500)	ASTM D1000
Thermal Conductivity W/m <sup>-1</sup> K <sup>-1</sup>	4.0	ASTM E1530
Thermal Impedance @ 10 psi °C in. <sup>2</sup> /W	0.10	ASTM E1530
Operating Temperature Range °C	-29 to +149	—
Adhesion to Steel N/cm (oz./in.)	3.3 (30)	ASTM D1000
Adhesion to Liner N/cm (oz./in.)	0.9 (8)	ASTM D1000

**Applications**—ThermaCool® C675 is the standard interface for microprocessor and heat sinks, ideal where electrical isolation is not a concern.

**Availability**—Available in slit-rolls up to 914mm wide.

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