



# K275

## Thermally Conductive KAPTON® Tape

Saint-Gobain Performance Plastics **ThermaCool™ K275** is manufactured with a 1.0 mil thick thermally conductive KAPTON® film. The film is coated on both sides with 2.0 mils of thermally conductive acrylic pressure sensitive adhesive. K275 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. K275 contains no halides or silicones.

### Physical Properties

Property	Test Method	K275
Color	Visual	White
Thickness (mils)	ASTM D1000	5.0
Thermal Conductivity (W/mK)	ASTM E1530	0.40
Thermal Impedance @ 10 psi (°C in. <sup>2</sup> /W)	ASTM E1530 @ 10 psi	0.10
Dielectric Strength (volts)	ASTM D149	6500
Adhesion to Steel (oz./in.)	ASTM D1000	30
Operating Temperature Range (°F)		-20 to 300

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

### Recommended Uses

- Thermally conductive dielectric barrier
- Fill voids where thermal transfer and electrical isolation is very important

### Availability

Factory stock is available as roll goods 16" wide x 36 yards long.

### Features/Benefits

- KAPTON polyimide film provides excellent electrical isolation and high dielectric performance
- Thermally conductive adhesive provides excellent thermal transfer at low application pressures
- Adverse effects of surface roughness are minimized with the highly conformable pressure-sensitive adhesive.
- Can be die cut to size from convenient roll format
- Thermally conductive acrylic adhesive can be thermaset for increased adhesion strength

### Applications

- Bonding electronic components to heat sinks where electrical isolation is critical

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