

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. ² /W)	ASTM E1530 @ 10 psi	0.49
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.

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

- 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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