

ThermaCool™

Thermal Interface Materials

ThermaCool™ K275

Thermally Conductive, Silicone Coated KAPTON® Tape

ThermaCool™ K275 is manufactured with a 0.025mm thick thermally conductive KAPTON® film. The film is coated on both sides with 0.051mm 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.

Features/Benefits

- KAPTON polyimide film and silicone rubber provide 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
- Polyimide film provides excellent resistance to cut through
- Can be die cut to size from convenient roll format

Typical Properties

| Property | K275 | Test Method |
|--|-------------|-------------|
| Colour | White | — |
| Thickness mm (in.) | 0.127 (5.0) | ASTM D1000 |
| Thermal Conductivity $W/m^{-1}K^{-1}$ | 0.40 | ASTM E1530 |
| Thermal Impedance @ 10 psi $^{\circ}C\text{ in.}^2/W$ | 0.10 | ASTM E1530 |
| Dielectric Strength volts | 6500 | ASTM D149 |
| Adhesion to Steel N/cm (oz./in.) | 3.3 (30.0) | ASTM D1000 |
| Operating Temperature $^{\circ}C$ | -29 to +149 | — |

Applications

- Bonding electronic components to heat sinks where electrical isolation is critical
- Thermally conductive dielectric barrier
- Void filler where thermal transfer and electrical isolation is very important

Availability—Available as slit rolls or roll goods 406mm wide x 32.9m long.



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