



PS-168I

Product Description:

P-THERM® PS-168I is a copper foil multi-laminate tape with a conductive black nano-thermal diffusion coating on one side and a conductive adhesive on the other. The copper has been laminated to a reinforcing conductive fabric which has been coated with an electrically conductive acrylic adhesive to offer electromagnetic shielding and thermal heat protection.

Construction / Properties:

| General | Property | Value | Test Method |
|---------|--|--------------------------------|-------------|
| | Color | Black | Visual |
| | Total Thickness | 0.08 mm | ASTM D374 |
| | Carrier Type | Copper Foil/Conductive Fabric | -- |
| | Acrylic Adhesion | > 1000 g/25mm | QSP-722 |
| | Continuous Use Conditions | -10 - 80 C | QSP-754 |
| | Recommended Application Specifications | 2 kg/square inch for 2 seconds | -- |

| Physical | Property | Value | Test Method |
|----------|--|---------------------------------|-------------|
| | Composite X-Y Thermal Conductivity | > 400 W/m K | ASTM D5470 |
| | Surface Resistivity | <0.03 Ω /sq | QSP-74I |
| | Z-Axis Resistivity | <0.15 Ω /in ² | QSP-74I |
| | Shielding Effectiveness (10 MHz - 3 GHz) | > 90 dB | -- |

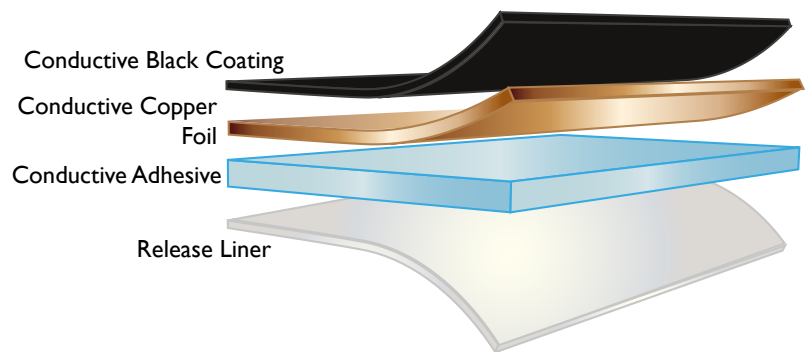
* 20% thermal conductivity tested at 20% strain.

Features:

- Superior Converting Properties
- Good Adhesive and Cohesive Strength
- Good Conformity to Non-Flat Substrates
- Good Thermal Conductivity
- RoHS and HF Compliant

Applications:

- Solar Panels
- Computers
- Smartphones
- Tablets
- Infotainment & Navigation Systems



Specific tests should be performed by the end user to determine the product stability for the particular application.

For Additional Information:

E-mail: sales@polymerscience.com
Toll Free: +1 888.533.7004
Web: www.polymerscience.com
Revision: 040621