

Thermal Interface Material

# Thermally Conductive High Voltage Insulative Pad

**MATERIAL**

Silicone rubber reinforced with fiberglass, filled with functional ceramic particles

**FEATURES**

- Provides lowest thermal resistance with the highest dielectric strength
- Resistant to tears and punctures
- Sheet stock or cut to specification

| PROPERTIES                  | TEST METHOD         | GP-IP1525  | GP-IP1535                  | GP-IP1550                  |
|-----------------------------|---------------------|--|----------------------------|----------------------------|
| Softness                    | ASTM D2240          | 70 Shore A   |                            |                            |
| Thermal Impedance @ 50 psi  | ASTM D5470 Modified | 0.58 °C-in <sup>2</sup> /W   | 0.62 °C-in <sup>2</sup> /W | 0.68 °C-in <sup>2</sup> /W |
| @ 345KPa                    |                     | 3.75 °C-cm <sup>2</sup> /W   | 3.99 °C-cm <sup>2</sup> /W | 4.38 °C-cm <sup>2</sup> /W |
| Thermal Conductivity        | ASTM D5470          | 1.5 W/m-K  |                            |                            |
| Thickness                   |                     | 0.25mm   | 0.35mm                     | 0.50mm                     |
| Standard Sheet Sizes        |                     | 230mmX400mm (individual die-cut shapes available)                    |                            |                            |
| Pressure Sensitive Adhesive |                     | Single-sided PSA with "A1" suffix; double-sided PSA with "A2" suffix |                            |                            |
| Tensile Strength            | ASTM D638           | 120 psi  |                            |                            |
| Volume Resistivity          | ASTM D257           | >8.5X10 <sup>14</sup> Ohm-cm   |                            |                            |
| Thermal Expansion           |                     | 36 ppm/°C  |                            |                            |
| Breakdown Voltage           | ASTM D149           | >7500 VAC  | >10000 VAC                 | >14000 VAC                 |
| Dielectric Constant @ 1MHz  | ASTM D257           | 3.3  |                            |                            |
| Operating Temperature       | TGA+DMA             | -55 to 200 °C  |                            |                            |
| Flammability Rating         | UL 94               | 94V-0  |                            |                            |
| Density                     |                     | 2.8 g/cc   |                            |                            |
| Composition                 |                     | Fiberglass Reinforced Silicone Rubber                                |                            |                            |
| Color                       |                     | Gray   |                            |                            |

## GET IN TOUCH

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