

THERMAL PAD

ATS049

Ultra thin thermal pads are a unique thermal interface material with a high loading of thermally conductive powders and ultra thickness of under 0.5 mm. Available with adhesive tapes on 1 or 2 sides.



| Property | Value | Test Method |
|--|----------------------|-------------|
| Colour | Black | Visual |
| Thickness (mm) | 0.25 | ASTM D-751 |
| Reinforcement Material | n/a | - |
| Thermal Conductivity (W/m.K) | 2.80 | ASTM D-5470 |
| Thermal Resistance ($^{\circ}\text{C}\cdot\text{in}^2/\text{W}$) | 0.35 | ASTM D-5470 |
| Continuous Use Temperature ($^{\circ}\text{C}$) | -60 to 180 | - |
| Flammability | V-0 | UL94 |
| Volume Resistivity (Ohms-cm) | 1.8×10^{13} | ASTM D257 |
| Dielectric Breakdown Voltage (Volts/mm) | 4000 | ASTM D-149 |
| Dielectric Constant (1MHz) | 4.5 | ASTM D-150 |
| Dissipation Factor (1MHz) | 0.009 | ASTM D-150 |
| Tensile Strength (kg/cm^2) | 5 | ASTM D-412 |
| Elongation % | 35 | ASTM D-751 |
| Hardness (Shore A) | 65 | ASTM D-2240 |
| Specific Gravity (g/cc) | 2.20 | ASTM D-257 |

Adhesive Tape Specification:

Adhesive Thickness: 0.05mm

Release Paper: 0.13mm White double-sided PE coating laminated.

Glue: Acrylic

Application Temperature: -30 ~ 130 $^{\circ}\text{C}$

Please note the performance of the material is reduced when applied with adhesive tape due to the operating temperature of the adhesive tape.

AMEC Thermasol

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