

TG-A4500F

Fiberglass Mesh Series Thermal Pad

REACH Compliant

RoHS Compliant

UL Comparable

Features

- High thermal conductivity
- Fiberglass on one side
- Non-deforming
- Electrical insulation

Application:

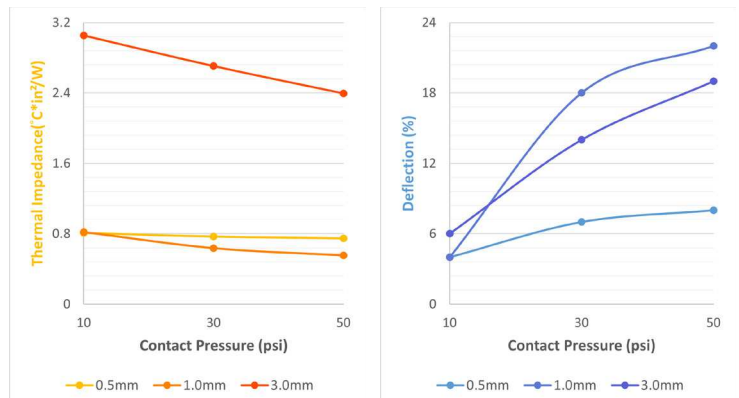
Suitable for voltage-resistant products

Electronic Components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Properties



Contact Pressure, Thermal Impedance, and Deflection



| Properties | Unit | TG-A4500F | Tolerance | Test Method |
|------------------------------|----------|----------------------|-----------|----------------------|
| Thermal Conductivity | W/m·K | 4.0 | ±10% | ASTM D5470 Modified |
| Thickness | mm | 0.5~8.0 | - | ASTM D374 |
| | inch | 0.0197~0.3149 | - | ASTM D374 |
| Color | - | Purple | - | Colorimeter CIE 1976 |
| Reinforcement Carrier | - | Fiberglass Mesh | - | - |
| Flame Rating | - | V-0 | - | UL 94 |
| Dielectric Breakdown Voltage | KV/mm | ≥11 | - | ASTM D149 |
| Weight Loss | % | <1 | - | ASTM E595 Modified |
| Density | g/cm³ | 3.1 | ±5% | ASTM D792 |
| Operating Temperature | °C | -50~+180 | - | - |
| Volume Resistivity | Ohm-m | 1 × 10 ¹³ | - | ASTM D257 |
| Elongation | % | 50 | - | ASTM D412 |
| Standard Format | - | Sheet | - | - |
| Hardness (Silicone Side) | Shore OO | 50 | ±15 | ASTM D2240 |

※For thicknesses less than 1.0mm, hardness will be adjusted to 50-75 Shore OO to facilitate effective removal of liner during production

※Different tolerances according to the selected thickness

※Die-cut for different shapes

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