

TG-A1780

Ultra Soft Thermal Pad

REACH Compliant RoHS Compliant UL Compliant

Features

- High thermal conductivity
- Low thermal resistance
- Good electrical insulation

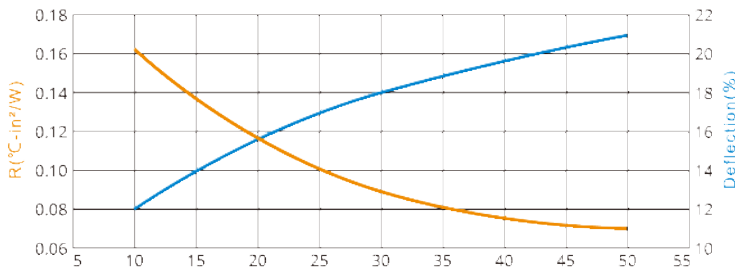
Applications

Best for high power applications

Electronic components - Electric Vehicles, 5G, Autopilot System, Mobile Phone, AIOT, HPC (High Performance Computing), Server, IC, CPU, MOS, LED, Mother Board, Power Supply, Heat Sink, LCD-TV, Notebook, PC, Telecom Device, Wireless Hub, DDR II Module, etc.

Properties

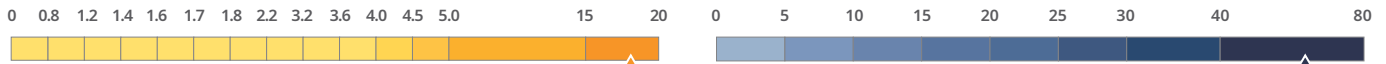
Thermal Resistance VS. Pressure VS. Deflection



| Pressure (psi) | R (°C-in²/W) | Deflection (%) |
|----------------|--------------|----------------|
| 10 | 0.161 | 12 |
| 30 | 0.089 | 18 |
| 50 | 0.071 | 21 |

Thermal Conductivity : 17.8 W/mK

Hardness : 70 (Shore 00)



| Properties | TG-A1780 | Unit | Tolerance | Test Method |
|------------------------------|--------------------|----------|-----------|-------------|
| Thermal Conductivity | 17.8 | W/mK | ±10% | ASTM D5470 |
| Thickness | 0.5~2.0 | mm | - | ASTM D374 |
| | 0.0197~0.0787 | inch | - | ASTM D374 |
| Color | Light Gray | - | - | Visual |
| Flame Rating | V-0 | - | - | UL 94 |
| Dielectric Breakdown Voltage | ≥4 | KV/mm | - | ASTM D149 |
| Weight Loss | <1 | % | - | ASTM E595 |
| Density | 3.5 | g/cm³ | ±10% | ASTM D792 |
| Working Temperature | -50~+180 | °C | - | - |
| Volume Resistance | 6×10 ¹² | Ohm-m | - | ASTM D257 |
| Elongation | 20 | % | - | ASTM D412 |
| Standard Format | Sheets one | - | - | - |
| Hardness | 70 | Shore 00 | ±10 | ASTM D2240 |

※The thickness is less than 1.0mm, considering that it's too soft to pick up from the bottom paper, therefore, adjusting the hardness to 50~75 for production line.

※Different tolerances according to the selected thickness

※ Pre-cut for different shapes

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