

TG-APC93 / PC93

Non-silicone Thermal Pad

REACH Compliant

RoHS Compliant

UL Comparable

Features

- Non siloxane and oil-bleed
- Ultra soft and great elongation
- Electrical insulation
- Very low thermal impedance

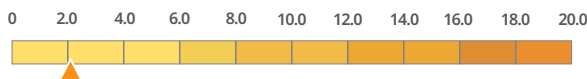
Application:

Applications that require no silicone

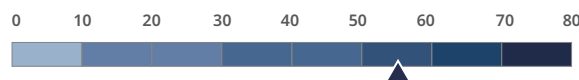
Electronic components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

Properties

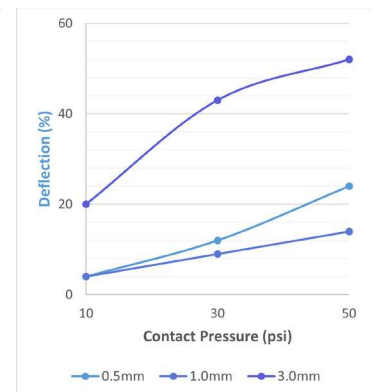
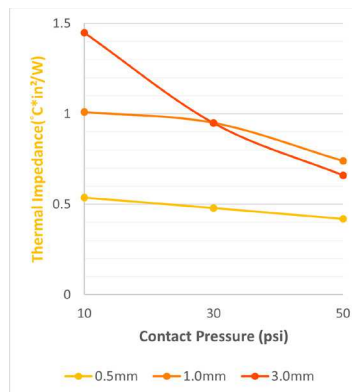
Thermal Conductivity : 2.1 W/m·K



Hardness : 55 (Shore OO)



Contact Pressure, Thermal Impedance, and Deflection



| Properties | Unit | TG-APC93 / PC93 | Tolerance | Test Method |
|------------------------------|----------|-------------------|-----------|----------------------|
| Thermal Conductivity | W/m·K | 2.1 | ±10% | ASTM D5470 Modified |
| Thickness | mm | 0.5~5.0 | - | ASTM D374 |
| | inch | 0.0197~0.1969 | - | ASTM D374 |
| Color | - | Gray | - | Colorimeter CIE 1976 |
| Flame Rating | - | V-0 | - | UL 94 |
| Dielectric Breakdown Voltage | KV/mm | ≥10.2 | - | ASTM D149 |
| Weight Loss | % | <1 | - | ASTM E595 Modified |
| Density | g/cm³ | 2.1 | ±0.2 | ASTM D792 |
| Operating Temperature | °C | -30~+125 | - | - |
| Volume Resistivity | Ohm-m | >10 ¹⁰ | - | ASTM D257 |
| Elongation | % | 350 | - | ASTM D412 |
| Tensile Strength | kgf/cm² | 1 | - | ASTM D412 |
| Standard Format | - | Sheet | - | - |
| Hardness | Shore OO | 55 | ±10 | 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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