



# PC94 / TG-APC94 Non-silicone Thermal Pad

REACH Compliant    RoHS Compliant    UL Compliant

## Features

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

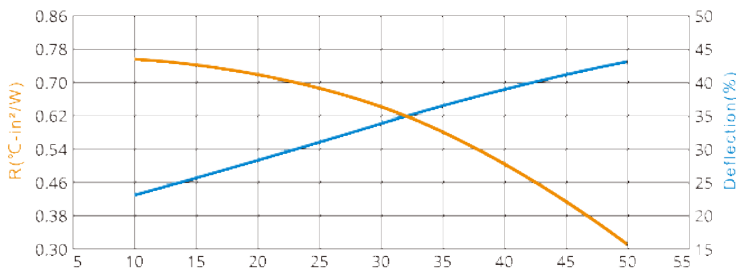
## Applications

Applications that require no silicone

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

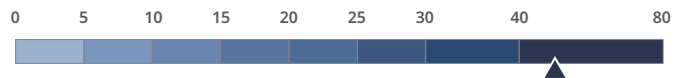
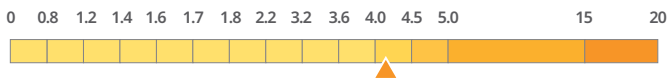
Thermal Resistance vs. Pressure vs. Deflection



| Pressure (psi) | R (°C-in²/W) | Deflection (%) |
|----------------|--------------|----------------|
| 10             | 0.75         | 23             |
| 30             | 0.64         | 34             |
| 50             | 0.31         | 43             |

Thermal Conductivity : 4.2 W/mK

Hardness : 50 (Shore 00)



| Properties                   | PC94 / TG-APC94   | Unit     | Tolerance | Test Method |
|------------------------------|-------------------|----------|-----------|-------------|
| Thermal Conductivity         | 4.2               | W/mK     | ±10%      | ASTM D5470  |
| Thickness                    | 0.5~5.0           | mm       | -         | ASTM D374   |
|                              | 0.0197~0.1969     | inch     | -         | ASTM D374   |
| Colour                       | Red               | -        | -         | Visual      |
| Flame Rating                 | V-0               | -        | -         | UL 94       |
| Dielectric Breakdown Voltage | 10.2              | KV/mm    | -         | ASTM D149   |
| Weight Loss                  | <1                | %        | -         | ASTM E595   |
| Density                      | 2.5               | g/cm³    | ±0.2      | ASTM D792   |
| Working Temperature          | -30~+125          | °C       | -         | -           |
| Volume Resistance            | >10 <sup>10</sup> | Ohm-m    | -         | ASTM D257   |
| Elongation                   | 100               | %        | -         | ASTM D412   |
| Tensile Strength             | 2                 | kgf/cm²  | -         | ASTM D412   |
| Standard Format              | Sheet             | -        | -         | -           |
| Hardness                     | 50                | Shore 00 | ±10       | ASTM D2240  |

Pre-cut for different shapes

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