



## TG-APC94 / PC94 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

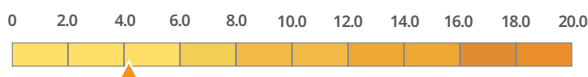
### Applications

#### Applications that require no silicone

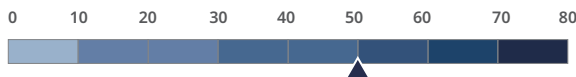
Electronic components - 5G, Aerospace, AI, AIoT, AR/VR/MR/XR, Automotive, Consumer Devices, Datacom, Electric Vehicle, Electronic Products, Energy Storage, Industrial, Lighting Equipment, Medical, Military, Netcom, Panel, Power Electronics, Robot, Servers, Smart Home, Telecom, etc.

### Properties

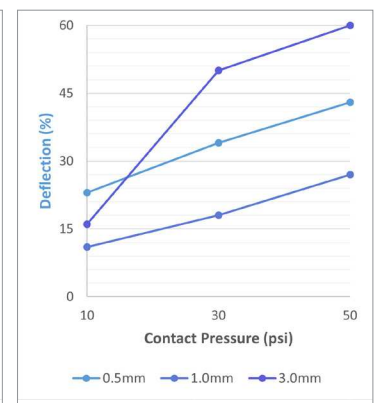
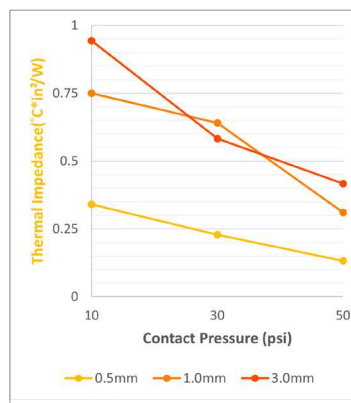
#### Thermal Conductivity : 4.2 W/m·K



#### Hardness : 50 (Shore OO)



### Contact Pressure, Thermal Impedance, and Deflection



| Properties                   | Unit     | TG-APC94 / PC94   | Tolerance | Test Method          |
|------------------------------|----------|-------------------|-----------|----------------------|
| Thermal Conductivity         | W/m·K    | 4.2               | ±10%      | ASTM D5470 Modified  |
| Thickness                    | mm       | 0.5~5.0           | -         | ASTM D374            |
|                              | inch     | 0.0197~0.1969     | -         | ASTM D374            |
| Color                        | -        | Red               | -         | Colorimeter CIE 1976 |
| Flame Rating                 | -        | V-0               | -         | UL 94                |
| Dielectric Breakdown Voltage | kV/mm    | ≥10.2             | -         | ASTM D149            |
| Weight Loss                  | %        | <1                | -         | By T-Global          |
| Density                      | g/cm³    | 2.5               | ±0.2      | ASTM D792            |
| Operating Temperature        | °C       | -30~+125          | -         | -                    |
| Volume Resistivity           | Ohm·m    | >10 <sup>10</sup> | -         | ASTM D257            |
| Elongation                   | %        | 100               | -         | ASTM D412            |
| Tensile Strength             | kgf/cm²  | 2                 | -         | ASTM D412            |
| Standard Format              | -        | Sheet             | -         | -                    |
| Hardness                     | Shore OO | 50                | ±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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