

# TG4040 / TG-A4040 Ultra Soft Thermal Pad

REACH Compliant    RoHS Compliant    UL Compliant

## Features

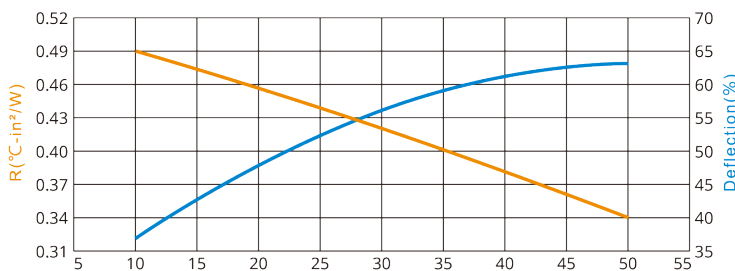
- Good thermal conductivity, Low thermal resistance
- Electrical Insulation
- High compressibility and compliancy
- Increase the performance of electronics

## 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

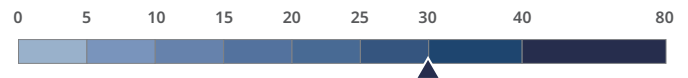
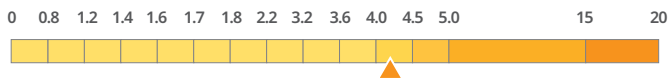
Thermal Resistance vs. Pressure vs. Deflection



| Pressure (psi) | R (°C-in²/W) | Deflection (%) |
|----------------|--------------|----------------|
| 10             | 0.49         | 37             |
| 30             | 0.42         | 56             |
| 50             | 0.34         | 63             |

Thermal Conductivity : 4.2 W/mK

Hardness : 30 (Shore 00)



| Properties                   | TG4040 / TG-A4040 | 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   |
| Color                        | Blue              | -                   | -         | Visual      |
| Flame Rating                 | V-0               | -                   | -         | UL 94       |
| Dielectric Breakdown Voltage | ≥15.3             | KV/mm               | -         | ASTM D149   |
| Weight Loss                  | <1                | %                   | -         | ASTM E595   |
| Density                      | 2.8               | g/cm <sup>3</sup>   | ±10%      | ASTM D792   |
| Working Temperature          | -45~+200          | °C                  | -         | -           |
| Volume Resistance            | >10 <sup>10</sup> | Ohm-m               | -         | ASTM D257   |
| Elongation                   | 100               | %                   | -         | ASTM D412   |
| Tensile Strength             | 1                 | kgf/cm <sup>2</sup> | -         | ASTM D412   |
| Standard Format              | Sheet             | -                   | -         | -           |
| Hardness                     | 35                | Shore 00            | ±10       | ASTM D2240  |

※Different tolerances according to the selected thickness  
 ※Pre-cut for different shapes

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