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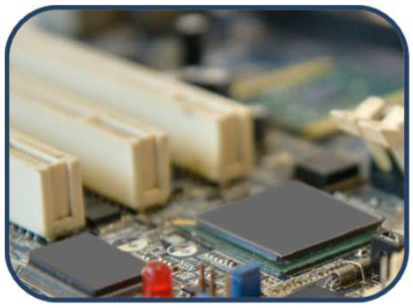
# Technical Data Sheet

## TCPC Series Thermal Phase Change Material

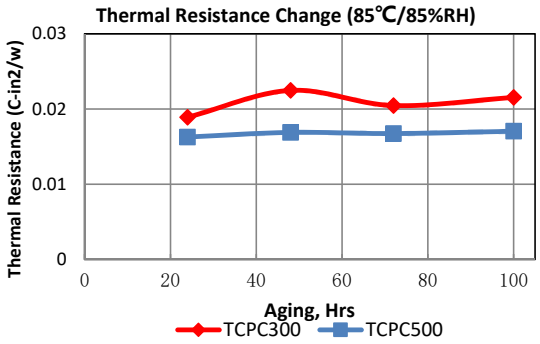
### Features:

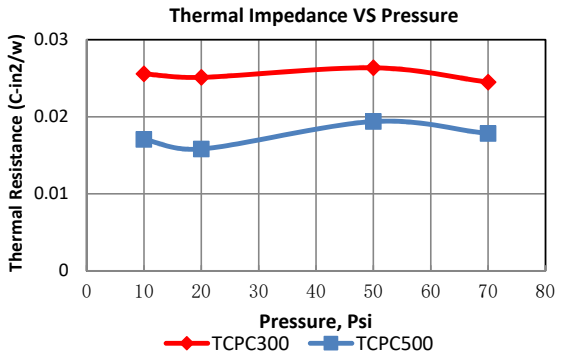
- 3.0-5.0 W/mk thermal conductivity
- Ultra low thermal resistance under low pressure
- Naturally tacky on both sides
- Easy for assembly



### Applications:

- Between electronic components such as IC, CPU, MOS and heatsink.
- Led Lighting, LCD TV, Telecom device.
- Computer peripherals for CPU, Memory modules
- Military Electronics




| TYPICAL PROPERTIES OF TCPC Series | | | |
|---|---|---|---|
| PROPERTY | TCPC300 | TCPC500 | TEST METHOD |
| Structure & Composition | Filled elastomer | Filled elastomer | -- |
| Color | Grey | Grey | Visual |
| Thickness, mm | 0.06-0.5 | 0.06-0.5 | ASTM D374 |
| Phase change temperature, °C | 45-60 | 50-60 | -- |
| Density, g/cc | 2.3 | 2.5 | ASTM D792 |
| Continuous Use Temp, °C | -40 - 130 | | EN344 |
| ROHS & REACH | Compliance | | IEC 62321 & EN14372 |
| **ELECTRICAL** | | | |
| Breakdown Voltage,KV/mm | 6.0 | <1.0 | ASTM D149 |
| Dielectric Constant, 1MHz | 3.2 | 6.8 | ASTM D150 |
| Volume Impedance, ohm-cm | $1.0*10^{13}$ | $1.0*10^{2}$ | ASTM D257 |
| Flame Rating | VO | | UL94 (E488764) |
| **THERMAL** | | | |
| Thermal conductivity, W/m.K | 3.0 | 5.0 | ASTM D5470 |

### Configurations Available:

Sheet size:300 x 400mm, individual die-cut parts available with removal tabs optional

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