

Technical Data Sheet

Product Description

CR Technology offers a wide variety of thermally conductive pads also known as gap fillers. These materials are available in both silicone and non-silicone formulations. EVERTHERM pads offer an endless range of thermal conductivity, softness and thickness options to easily solve any heat related issue. EVERTHERM pads are naturally tacky and can be cut to any size or shape for easy installation. EVERTHERM pads are designed and engineered to achieve the highest level of thermal management to protect today's most advanced electronics.



Material Properties

- High thermal conductivity
- Excellent flame retardant
- Good electrical insulation performance
- Good flexibility and high compression ratio

EVSF1000

| | | |
|---|---|------------|
| Color | Gray | Visual |
| Thickness | 1.0mm | ASTM D374 |
| Specific Gravity | 3.40g/cc | ASTM D792 |
| Thermal Conductivity | 10.0 W/m-K | ASTM D5470 |
| Hardness (Shore OO) | 40-80 | ASTM D2240 |
| Elongation | 15% | ASTM D412 |
| Tensile Strength | 10psi | ASTM D412 |
| Breakdown voltage strength | >6KV AC/mm | ASTM D149 |
| UL Flammability Rating | UL94 V-0 | |
| Volume resistivity | $1 \times 10^{12} \Omega \cdot \text{cm}$ | ASTM D257 |
| Operating Temperature | -50 - 150°C | -- |
| Thermal Resistance(1mm,@40psi) | 0.12°C*in ² /W | ASTM D5470 |
| Compression Ratio(1mm,@40psi) | 30% | -- |
| Dielectric Constant MHz | 12 | ASTM D150 |
| RoHS | PASS | IEC 62321 |
| Halogen | PASS | EN14582 |
| REACH | PASS | EN14372 |
| Standard Sheet Size | 200 x 300mm | |
| <i>(Note: Other sheet sizes may be available upon request.)</i> | | |

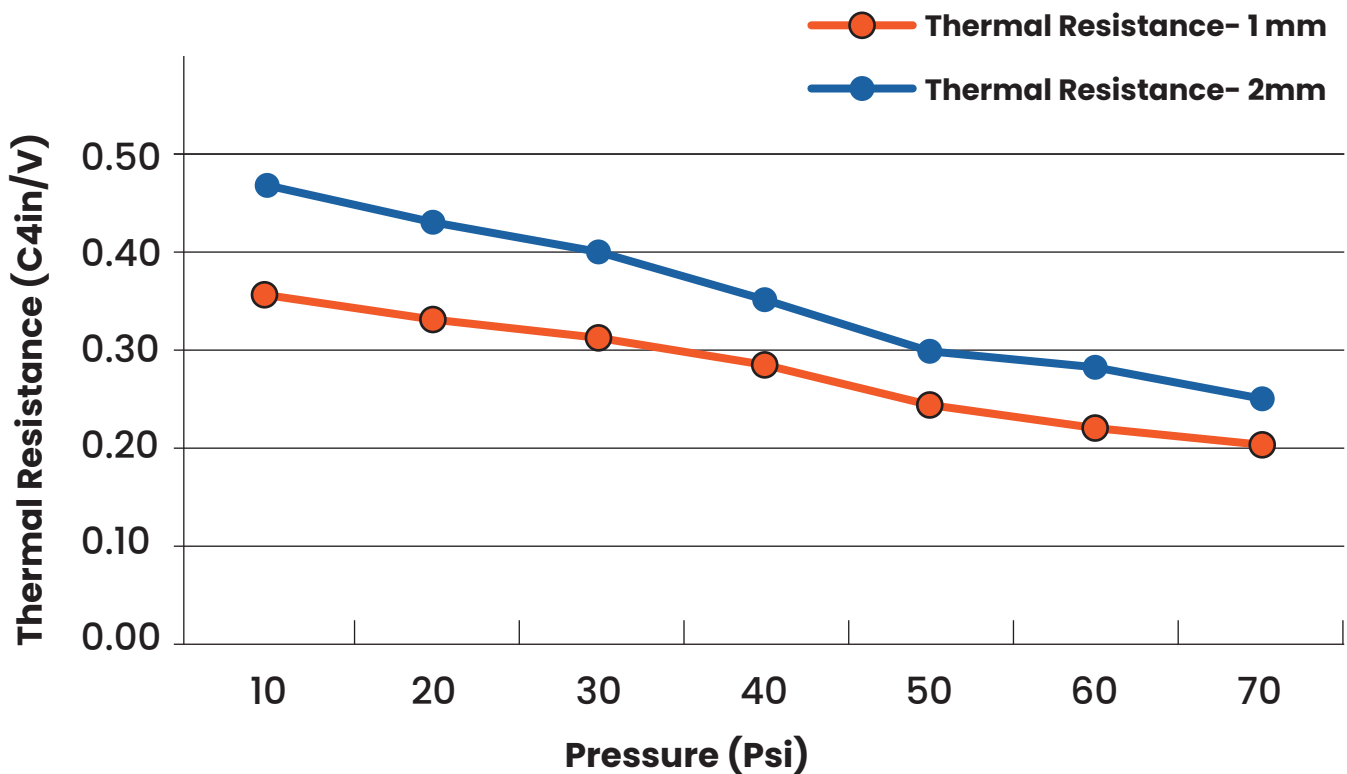
Test fixtures using ASTM D5470. Recorded values include interface thermal resistance. These values are for reference only. The actual application performance is directly related to the applied surface roughness, flatness and pressure.

Applications

- ✓ Semiconductor heat sink
- ✓ Electric Vehicle (EV) Batteries
- ✓ Communication & power devices & modules
- ✓ LED lighting equipment
- ✓ Electronic components like:
LEDs, CPUs, MOS • Mobiles, Laptops, Tablets

EVSF1000

Thermal Resistance VS Pressure



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Note: The information provided herein is accurate at time of publication. It is the responsibility of the end-user to confirm compliance to their application. All test data is typical. Therefore, these recommendations and data are for reference only and not as a product warranty.