

TP 120

Ultra Soft, Gap Filler Pad

TP120 thermal conductive silicone pad is a special thermal conductive gasket developed for low compression force, low thermal resistance, high softness and compliance applications. It can work stably at -40 °C~150 °C and meet the flame retardant grade requirements of UL94V0



Features and Benefits

- 1.2 W/m.K
- Ultra soft and highly compliant
- Naturally tacky, easing application
- High electrical insulation
- Good temperature resistance

Typical Applications

- Networking and Telecommunications
- IT: Notebooks, Tablets, Power Conversion
- Industrial: LEDs, Power Supplies and Conversion
- Automotive: Control Modules, Turbo Actuators
- Consumer Electronics: Gaming Systems, and LCDs

Typical Properties

| Attribute | Value | Test Method |
|------------------------------|-------------------------------|-------------|
| | TP 120 | - |
| Composition | Ceramic Filler + Silicone | - |
| Color | Light Red | Visual |
| Thickness (mm) | 0.5 to 12.0 | ASTM D374 |
| Density (g/cc) | 2.3 | ASTM D792 |
| Hardness (Shore OO) | 20(Thickness≤1.0 Shore OO 35) | ASTM D2240 |
| Usage Temperature (°C) | - 40 to 150 | - |
| Electrical | | |
| Breakdown Voltage (kV/mm) | ≥ 6.5 | ASTM D149 |
| Volume Resistivity (Ω.cm) | 10 ¹² | ASTM D257 |
| Dielectric Constant @1MHz | 5.3 | ASTM D150 |
| Flammability | V-0 | UL 94 |
| Thermal | | |
| Thermal Conductivity (W/m.K) | 1.2 | ISO 22007-2 |

Storage

Store in a cool, dry, well-ventilated place.

Shelf life

Shelf life of the product is 12 months after date of shipment

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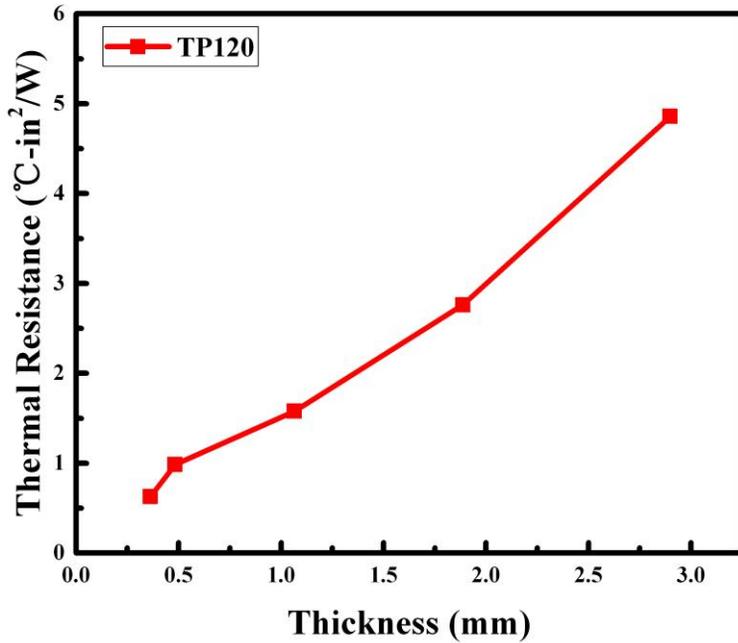


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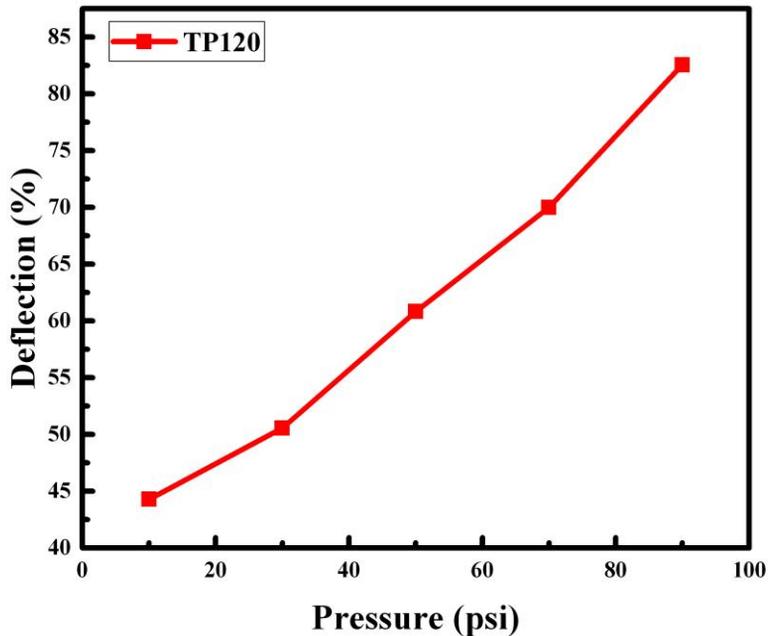
Thickness vs. Thermal Resistance

Reference only



Pressure vs. Deflection

Reference



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