**Sil-Pad Insulator Fiberglass Silicone Based Thermal Insulating Cloth For Electrical Module**

***Description:***

Sil-Padis a kind of silicone elastomer composite material. Compounded with silicone rubber and fibreglass, it's an insulating and good thermally conductive material for filling. This product can effectively reduce thermal resistance between the electronic component and the heat sink with superior electrical insulation and dielectrical strength. Equipped with anti-tearing property, it can resist high voltage and prevent parts from metal piercing.

***Advantages:***

1. Strong tension resistance,
2. Wearing resistance, excellent insulation performance,
3. Non-adhesive on surface , thin thickness, suitable for thermal insulation of power devices.

*Extra adhesion available

***Features:***

Thermal resistance : 0.49C -in2/W (@ 50psi)
Low fastening pressure
Surface smooth and highly adapted
Electrical insulation

***Application:***

1. Large power source and automobile electronic heating module
2. Motor control, communication equipment
3. Power semiconductor, IS MOS tube IGBT chip
4. High voltage , high temperature , high power welding machine etc.
5. Military, aviation
6. Heating power device

***Other Specifications***

Sheet, die-cutting, roll, with adhesive and without adhesive are available
Basic size:0.23mm*300mm*50m , 0.23mm*300mm*76m
Die cutting and adhesive are available

**Parameter Table**

| JRFT-BM900S PROPERTIES TABLE | | |
|---|---|---|
| **Test project** | **Numerical** | **Test standard** |
| **Test Item** | Product | Test method |
| **Part NO.** | BM900S | N/A |
| **Thickness(mm)** | 0.23 | ASTM D347 |
| **Color** | Pink | Visual |
| **Thickness tolerance(mm)** | 0.02±0.01 | ASTM D347 |
| **Continuous use temp (℃)** | -60~200 | TGA＋DMA |
| **Thermal Conductivity(W/m-k)** | 1.5 | ASTM D5470 |
| **Volume Resistivity(Ω-cm)** | $10^{10}$↑ | ASTM D257 |
| **Dielectric Breakdown Voltage** | 2.5KV↑ | ASTM D149 |
| **Hardness(shore A)** | 92±5 | ASTM D2240 |
| **Specific Gravity** | 2.8 | ASTM D792 |
| **Tensile Strength(kg/㎠)** | 9 | ASTM D412 |
| **Elongation(%)** | 3 | ASTM D412 |
| **RoHS(6)** | Check out | IEC 62321 |
| **Halogen(4)** | Check out | EN 14582 |
| **REACH(15)** | Check out | EN 14372 EPA 3502 |
| **Flame Rating** | V-0 | UL 94 |
| **Construction** | Silicone/fiberglass | N/A |