



PS-200 Thermal Conductive Encapsulant

Description:

This product is a two-component silicone encapsulant, which is a liquid electronic material with various properties such as thermal conductivity and buffering. The product can be cured at room temperature or under heat. It can be widely used to fill the gap between hot electronic devices and heat sink or metal housing. It has excellent flowability and leveling before curing. After curing, it will not come out of the protective shell and can meet the wide range of customer needs.

Characteristic

- Good flowability and can effectively fill the gap
- Good insulation property with good reliability
- Good processability

Typical Applications

- LED lighting
- Automotive electronics
- Telecom base stations
- Microprocessors and graphic chips



Typical Properties

| Properties | Typical value | | Test method |
|------------------------------|-------------------|--------|-------------|
| Before mix | Part A | Part B | |
| Color | Grey | White | Visual |
| Viscosity* (mPa*s) | 11,500 | 16,200 | ASTM D2196 |
| Viscosity* (mPa*s) | 13,600 | | ASTM D2196 |
| Density (g/cc) | 2.8 | 2.8 | ASTM D792 |
| Mix ratio | 1:1 | | / |
| Cured properties | | | |
| Color | Grey | | Visual |
| Thermal Conductivity (W/m*K) | 2.0 | | ASTM D5470 |
| Durometer (Shore A) | 35 | | ASTM D2240 |
| Dielectric Strength (kV/mm) | >10 | | ASTM D149 |
| Volume Resistivity (Ω*cm) | >10 ¹² | | ASTM D257 |



| Properties | Typical value | Test method |
|----------------------------|---------------|-------------|
| Working Time@25°C (h) | 2 | ASTM D2196 |
| Cure Time@25°C (h) | 12 | ASTM D2240 |
| Cure Time@80°C (min) | 30 | ASTM D2240 |
| Flame Classification | V-0 | UL-94 |
| Tensile Strength (MPa) | 0.25 | ASTM D412 |
| Elongation (%) | 20 | ASTM D638 |
| Operating Temperature (°C) | -40~200 | / |

*Brookfield DV2T HB-05, 20rpm

Storage:

- Shelf life: 6 months
- Temperature: 10°C~30°C
- Relative humidity: RH<70%

Package:

- 4kg/Kit (Part A and Part B 2kg each)
- 10kg/Kit (Part A and Part B 5kg each)
- 60kg/Kit (Part A and Part B 30kg each)

The technical data in this data sheet only represent typical values, not the test values of each batch of products. If you need the technical specification of the final product, please contact the relevant technical personnel.

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