



SMART- BOND CHEMICALS PVT. LTD.

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SMART-THERM SB-330 Thermal Potting

PRODUCT DESCRIPTION:

SMART-THERM SB 330 Thermal Potting is a two-component silicone based, room temperature or heat curable potting compound with good thermal conductivity.

FEATURES AND BENEFITS:

- Simple mix ratio (1:1) for the ease of operation
- Low Viscosity
- Good flowability and low surface tension to ensure intimate contact with heat sources
- Fast room temperature curing
- Good thermal Conductivity
- Excellent temperature resistance
- UL 94 V0 Compliant

APPLICATION AREAS:

- It is used in power electronic components, modular power supplies, circuit boards for potting application
- It is used in LED drivers, automotive HID lamp power supply etc
- It is used in automotive ignition system module power supply, network transformers etc.
- It is used for potting of adaptors, inverters, transformers, sensors, electronics control units etc.

TYPICAL PROPERTIES

Physical Properties

Property	Specifications/Conditions	Results
Appearance – Part A		White Fluid
Appearance – Part B		Black Fluid
Viscosity Part A	Centipoise	2500 – 3200
Viscosity Part B	Centipoise	2500 – 3200
Density Part A	gm/cc	1.5 – 1.65
Density Part B	gm/cc	1.5 – 1.65
After mix properties		
Mixing Ratio	By Weight	1:1
Mixing Ratio	By Volume	1:1
Mixed Viscosity	Centipoise	2500 – 3200
Working Time @ 30°C	Minutes	40-60
Curing Time @ 30°C	Hours	2 – 4
Curing Time @ 80°C	Minutes	15
Hardness	Shore A	>40
Thermal Conductivity	W/mK	0.8
Dielectric Strength	kV/mm	>21
Flammability Rating	UL 94	V0 Compliant

APPLICATION PROCESS

- Surface should be clean before use
- Ensure component A and component B are homogenised well before mixing
- Mix both component A and component B in the ratio of 1: 1 by weight or by volume
- Pour the mixture into the desired container ensuring there is minimal air entrapment
- Pouring/dispensing should be done under vacuum if the electronic module being potted has many voids.
- Leave the mixture to cure at room temperature or at an elevated temperature for faster cure

SMART-THERM SB 330 Thermal Potting

STORAGE AND HANDLING

SMART- THERM SB 330 Thermal Potting should be stored at or below 30 C.

PACKAGING INFORMATION:

- The product is available in packing of 1 Kg Part A and 1 Kg Part B (Net Weight) plastic pails.
- The product is available in packing of 25 Kg Part A and 25 Kg Part B (Net Weight) plastic pails.

DISCLAIMER:

The Product information and application details given by the company and its agents has been provided in good faith and meant to serve only as a general guideline during usage. Users are advised to carry out tests and take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used, and on-site workmanship are factors beyond our control, there are no expresses or implied guarantee/warranty as to the results obtained. The company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.

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