



Thermally Conductive Silicone Grease

Product Description

JA447-6 is a non-reactive, silicone, thermally conductive grease. This product is a high-viscosity paste that will not undergo a curing reaction when combined with parts, and can be easily stripped and reworked. This product will not dry out even after long periods of time. It has good electrical insulation and thermal conductivity and is widely used in electronic parts, such as flip chip, BGA, diode, power switch, transistors and silicone-controlled rectifiers.

Features

1. This resin combines good thermal conductivity and economic cost.
2. The formulation of this product is ideally suited for use in thin cross-sectional thickness down to 5 μm .
3. This resin is easily cleaned with isopropyl alcohol.
4. This product is rated for 200°C continuous operation.
5. This resin is easy applied by dispensing or printing.
6. This product complies with the 2011/65/EU RoHS regulations.

Typical Uncured Properties

Appearance	JA447-6
Color	Liquid
Viscosity _{25°C} , S14 0.3rpm, cps	White
Specific Gravity	1,500,000~3,500,000
	2.4

Direction of Use

1. This product is a filled system, should be stirred thoroughly prior to use.
2. This product may be applied with commercial dispensing equipments.
3. Avoid air entrapment to obtain optimum cured properties.

Typical Cured Properties

Maximum Continuous Use Temp., °C	200
Degradation Temp, (TGA 10°C /min), °C	408
Weight Loss Ratio @ 100°C, %	0
Weight Loss Ratio @ 150°C, %	0
Weight Loss Ratio @ 200°C, %	0
Weight Loss Ratio @ 250°C, %	0.01
Weight Loss Ratio @ 300°C, %	0.19
Weight Loss Ratio @ 350°C, %	0.91
Weight Loss Ratio @150°C / 24hr, %	1.52
Bleed 150°C / 24hr	Nil
Thermal Conductivity, W/mK	2.5
Thermal Resistance m ² K/W	0.0008
Volume Resistivity ohm-cm	2.0*10 ¹⁵

Storage and Shelf Life

This resin should be kept without any possibility of moisture and heat exposure. It should be storage at 2°C ~ 13°C before opening the containers. Shelf life of this product is one year. Before using, it should place this product at 14~34°C for 1 to 2 hours. Please put the unused products back in the refrigerator 2°C ~ 13°C on the same day. The viscosity will be changed when replace this product at room temperature for long time.

Caution

Some findings indicate a lack of potential for carcinogenicity with the compositions of this product by long term recurrent application to the skin. DO NOT use solvents for cleaning hands. It is important to remove this product from skin with soap and water thoroughly. This product is of slight acute toxicity by swallowing. If swallowed, call a physician. Avoid contact with eyes. In case of contact, flush with water for at least 15 minutes and get medical attention immediately. For specific information on this product, consult the Material Safety Data Sheet.