

Key Features and Benefits

- Excellent thermal conductivity
- One-part heat-cured for easy application
- No by-products released during the curing process
- Superior high and low temperatures resistance, excellent weatherability and dielectric properties
- Good thixotropy and adhesion before curing, low contact thermal resistance, non-flowing, soft and low-stress after curing with no exudation
- Reworkable after use

Description

PAKCOOL® TC-9110-T is a reworkable, one-part, addition-cure, heat-cured liquid thermal gap filler. In its uncured state, it is a liquid paste that can be applied using automated dispensing, screen printing, and other methods, providing excellent contact between the heat-generating surface and the heatsink. After high-temperature curing, it forms a soft gel with minimal stress and superior stability. This product overcomes the long curing times of moisture-cured products while maintaining the low stress and reworkability of non-curing thermal greases or pastes, facilitating maintenance and repair. It offers easier application, lower contact thermal resistance, and better performance for uneven and large gaps than traditional thermal pads.

In addition, the product boasts high thermal conductivity, excellent insulation properties, and the ability to fill large gaps, making it suitable for various electronic devices requiring efficient thermal management.

Applications

- Power modules
- Integrated circuits
- Power supplies
- Integrated circuits
- Automotive Electronics
- Communication devices
- Computers and Accessories

Method of use

- Ensure that component surfaces are clean before applying the adhesive.
- Wear protective eyewear and gloves during use. Ensure the working environment is well-ventilated.
- This product may not solidify or completely solidify when exposed to some substances, such as sulfur, phosphorus, or nitrogen compounds and polysulfone, polysulfide, polyurethane, substances containing amides and amines, tin, arsenic, antimony, selenium, and tellurium, unsaturated hydrocarbons and plasticizers

Technical Parameters

Typical Properties	TC-9110-T	Test Methods
Color	White	Visual
Viscosity (cP)	250,000	ASTM D2196-20
Thermal Conductivity (W/m·K)	1.0	ASTM D5470
Density (g/cm³)	2.60±0.20	ASTM D792
Hardness (Shore OO)	35±25	ASTM D2240
Dielectric Strength (kV/mm)	≥8	ASTM D149
Volume Resistivity (Ω·cm)	≥1.0×10 ¹²	ASTM D257
Shelf Life (@10~25°C)	40 days	--
Shelf Life (@-25~-10°C)	4 months	--
Continuous Use Temperature (°C)	-50~+200	--

Note: Data is for guidance only and should not be used as product specifications.

Storage & Logistics

- Available in 30mL, 55mL dispensing syringes, 330mL cartridges. Custom packaging options are also available based on customer requirements.
- This product is non-toxic and non-flammable, and may be shipped as an ordinary chemical. The transportation duration shall not exceed 7 days. Upon receipt, store it under low-temperature conditions immediately.
- For storage, place the product horizontally. The shelf-life is no more than 40 days when stored at 10-25 °C, and no more than 4 months when stored at -25 ~ -10 °C. Before use, warm up the material at 25 °C for at least 4 hours until the material temperature is consistent with the ambient temperature.

The data of this specification are obtained under laboratory conditions. However, because of the difference of use environment, process and so on, it can not guarantee the correctness and applicability of the product in some usage and use. When using, be sure to test to confirm the product suitable for your purpose. If you have any problems in using this product, please contact our technical department. We will do our best to help you.