

### Description

TP-2004 is a thermally conductive silicone putty. It has similar plasticity of plasticized, non-flowing, high thermal conductivity and low thermal resistance. It has good insulation and can fill the gap automatically.

### Features

- High thermal conductivity
- Low thermal resistance
- Dispensable
- Soft

### Applications

- Dispensable thermally conductive putty for use as heat conduction for electronic devices.

Properties	Typical Value	Unit	Test Method
Color	Pink	-	PEN10
Density	3.39	g/cm <sup>3</sup>	ASTM D792
Extrusion rate, 25°C			
• 90psi without needle	59	g/min	PEN107
Bond Line Thickness	0.09	mm	PEN 151
Thermal conductivity	4	W/mK	ASTM D5470
Thermal resistance	1.2	K.cm <sup>2</sup> /W	ASTM D5470
Breakdown Voltage	≥7	kV/mm	ASTM D149
Volume Resistivity	1x10 <sup>13</sup>	ohm.cm	ASTM D257

\* The values above are tested based on batch to batch basis. These values are not used as a basis for preparing specifications.

\* PEN is referring to Penchem's standard test method; ASTM is for test reference only.

\* Thermal conductivity and thermal resistance were measured at 100kPa contact pressure and 0.60mm thick, at 40°C.

### Guideline of Use

- 1) Wear rubber glove when handling the silicone putty.
- 2) Scoop a quantity of the silicone putty from the container using a stainless-steel spatula.
- 3) Work and knead the putty around electronic part and circuit by hand.
- 4) This product may be dispensed by pneumatic dispenser or other dispensing equipment with an appropriate needle. Increasing the dispensing temperature (eg. 60°C) can ease the dispensing process. The user is responsible to determine the suitability of the product for all intended uses.
- 5) Wipe off any excess putty with a piece of dry cloth. Further cleaning of residues may be achieved by wiping with cloth wetted with isopropanol.

### Storage & Shelf Life

This product has 6 months of shelf life from date of manufacturing, unless otherwise specified, when stored at room temperature in the original and unopened container.

### Packaging

- 500g, 1kg, 5kg in plastic jar/pail

Other packaging enquiry, please contact our sales department.

### Environment, Health & Safety

This product is intended for industrial use only. For more safety information, please refer to Product Safety Data Sheet (SDS).

### General Information

All right reserved. This information in this document is subjected to change without notice.

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