



Thermal Putty

SY-TP652-3

Technical Data Sheet

Version Number: A-c

❖ Product Introduction

TP652-3 is a special interface filling material with high thermal conductivity made of silicone resin by special formula and process. Low interface thermal resistance can be achieved at a relatively low pressure. It can be used between heating power devices and heat radiating aluminum sheets or shells to effectively eliminate the air, reduce air contact thermal resistance and achieve effective filling effect.

❖ Available Configuration

- Syringe: 10cc; 30cc; 100cc; 300cc

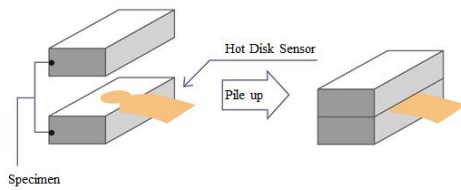
❖ Product Performance

- Good thermal conductivity and low thermal resistance;
- Very low deformation force , high compliance, and good wettability.
- Strong plasticity, suitable for dispensing process;
- Good reliability.

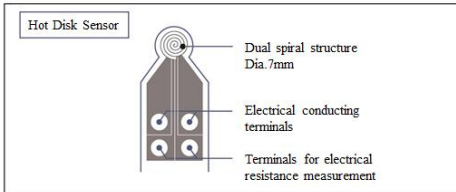
❖ Typical Features

Feature	Specification Value	Test Standard
Color	Blue	Visual inspection
Density (g/cm ³)	3.20	ASTM D792
Hardness (Shore OO)	N/A	ASTM D2240
Volume Resistivity ($\Omega \cdot \text{cm}$)	1.0×10^{11}	ASTM D257
Dielectric Strength (kV/mm)	5.0	ASTM D149
Flame Rating (UL94)	V-0	UL94
Thermal Conductivity W/(m·k)	6.50	ISO 22007-2
	6.50	ASTM D5470
Thermal Resistance ($^{\circ}\text{C} \cdot \text{in}^2/\text{W}$)	0.052@20psi	ASTM D5470
The Minimum Thickness of Adhesive (mm)	0.10	Saintyoo TM
Service Temperature ($^{\circ}\text{C}$)	-40~125	Saintyoo TM

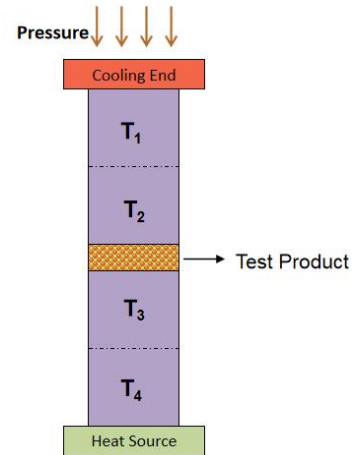
□ Thermal Conductivity Test Method



Thermal conductivity is calculated by software for calculation

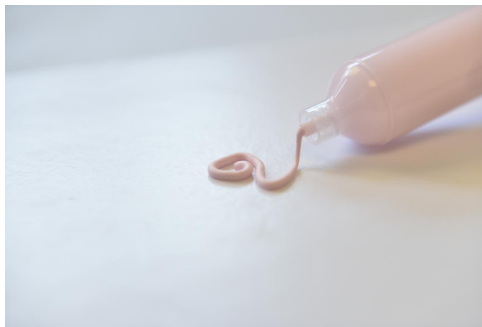


Knead the thermal putty, no air, diameter 25.4mm or more.



❖ Product Application

The product is widely used in mobile communications-equipment, desktop computers, portable computers and servers, LED lighting equipment, printed circuit board components, shell connection, optical fiber communications-equipment, automotive electronics, military electronics and other electronic products between heating devices and heat radiation aluminum sheet or shell filling and heat conduction and so on.



❖ Shelf Life and Storage Condition

- Shelf Life: 12 months
- Storage Condition: 15°C~35°C/0~65%RH in packing case.

❖ Applying Process

- Syringe matching up mixed thermal putty needles mouth, you can choose dispensing machine or glue gun to dispense.
- Before dispensing, we advice to squeeze out 0.2~0.3g thermal putty on the needle mouth. We advice to squeeze out a little thermal putty if the dispensing machine stop more than an hour in the halfway.
- The thermal putty that has not been used up after opening can be screwed on the cover to continue storage and reused within the service life.

Special Declaration: We suggest user do adaptability test before the formal use of this product. Due to the diversity of practical application, our company do not guarantee that the problem appear in a specific condition, thus our company will not be responsible for any direct, indirect or accidental damage. You can contact my company's after-sales service when problems encountered in the use, we will try to help you.