

## TECHNICAL DATA SHEET

## 9239 (RTV Silicone)

### One-Component

#### SUMMARY

9239 is a single-component room temperature cured thermal adhesive silicone. It has excellent adhesive properties and weather resistance to a variety of plastics, metals, ceramics and other materials. Mainly used for PCBA circuit board filling waterproof and electronic components reinforcement bonding.

Compliance with EU RoHS, REACH Directive requirements and UL certification.

#### CHARACTERISTIC

- Good operability, high hardness, high strength.
- No corrosion to the material.
- Excellent thermal conductivity and flame resistance.
- Wide range of adhesive applicable materials.

#### TYPICAL APPLICATION

- Heat radiator bonding for electronic appliances.
- Component bonding and three-defense protection on PCBA board.
- Electronic components gap filling and fixation.
- Thermal interface adhesion and thermal conductivity of the LED light source.

#### TYPICAL TECHNICAL PARAMETERS

Product Parameters			
Item	Test Standard	Standard Values	Numerical Value
Component			Single Component
Color state	Visual inspection	White half paste	
Surface curing time	25°C & 50%RH	min	5-12
Proportion	GB/T 13477.2	g/ml	1.55±0.1
Extrusion rate	Φ3mm/0.3MPa	ml/s	6±1
Deep curing	24h@25°C&50%RH	mm	≥ 2
Hardness	GB/T531.1-2009	Shore A	55±5
Thermal conductivity	ASTM5470	W/mk	≥ 0.5
Tensile strength	GB/528-2009	Mpa	≥2.3
Breaking elongation	GB/528-2009	%	≥100
Fugitive constituent	105°C24H	%	≤ 2.2
Fire retardant grade	UI94	/	Match
Electrical strength	GB/T 1695-2005	kv/mm	≥14
Volume resistivity	GB/T 1692-2008	Ω.cm	≥3*10 <sup>14</sup>
Certification report	RoHS, REACH, UL, Halogen free, Sulfur free Comply: M-03-WI-QA-019 <Material Environmental Protection Certification Code> A15		
<b>Note:</b> The above performance parameters are obtained after 7 days of curing under standard conditions.			

(Non-standard value)



## USAGE METHOD

1. **Clean surface:** the sticky or coated surface shall be cleaned up to remove rust, dust and dirt; small polar surfaces like PP and PE shall be treated with special coating before glue.
2. **Apply glue:** unscrew the hose cap, squeeze the glue to the cleaned surface, so that it is evenly distributed, and the adhesive surface is closed and fixed.
3. **Curing:** Place the coated parts in the air and let them solidify by themselves. This glue is a curing process from the outside to the inside, curing within 24 hours (50% at room temperature and about 3-4mm in relative humidity). Low temperature and low humidity curing time will be extended.
4. After the operation is finished, the unused glue should be tightened immediately and sealed. When used again, if there is a little skin at the seal, it can be removed, do not affect the normal use.

## PACKAGING STORAGE AND TRANSPORTATION

1. Plastic pipe installation: 300 mL / plastic tube (24 pcs / ctn).
2. Plastic pipe is installed with 2600 mL / plastic tube (4 pcs / ctn).
3. The product shall be sealed and stored in dry and ventilated places (5°C~28°C) to prevent rain and sun exposure.
4. The shelf life is 6 months in the above normal storage environment, and the optimal use period is 4 months, otherwise the curing time will be extended and the hardness will be reduced.
5. This product is non-dangerous goods, and can be stored and transported as general chemicals.

## ATTENTION MATTERS

1. Stay away from the children. If accidentally contact skin, wipe clean and rinse with water, if accidentally contact eyes, rinse with water and go to the hospital for examination.
2. The product should be used up as soon as possible after opening. The unused product should be sealed and placed in a safe place.

## LIMITED GUARANTEE DATA

The data provided in this manual is consistent with the reality state that we know, but it does not exempt users from the responsibility of timely and careful inspection of each batch of supply. We reserve the right to change product parameters for reasons of technological advances or new developments. Under operating conditions beyond our control, especially if other company raw materials are in use, the methods recommended in this specification shall be verified by preparatory tests. These recommendations do not exempt users from the obligation to investigate the possibility of third-party rights infringement and to clarify it if necessary. These use recommendations do not constitute a guarantee, expression, or implication of the applicability of the product for certain special use.

