

TH 934-6

Thermally Conductive Silicone

Description

TH 934-6 is a white colored and thermal conductive silicone system suitable for potting and thermal dissipation of electronic devices. This two-part silicone can be cured at room temperature. This system has high hardness, good adhesion strength and yet provides flexibility to give low stress for excellent temperature cycling, high temperature storage, high humidity storage and outdoor weathering.

Applications

Potting, encapsulation, coating and adhesion for electronic devices.

Properties

Property	Test Method	Unit	Typical Value		
			Part A Resin	Part B Cross-linker	Mixed
Chemical type	-	-	Siloxane	Siloxane	Siloxane
Appearance	Pen 10	-	White liquid	Milky yellowish liquid	White liquid
Mix ratio, w/w	-	-	1.00 ± 0.01	1.00 ± 0.01	-
Shelf life, 25°C	Pen 26	Month	12	12	-
Pot life, 25°C	Pen 57	Hour	-	-	3
Viscosity, Cap 2000+, 25°C	Pen 44	cP	18,700	3,250	7,800
Hardness, cured 25°C/24hr	Pen 29	Shore A	-	-	65
Thermal conductivity	ISO/DIS 22007	W/mK	-	-	0.75

Guidelines for Use

1. Add the Part B cross-linker into Part A resin by weight ratio 1:1. Stir with an electric mixer until the silicone is homogeneously mixed. It is advisable to agitate the Part A resin and Part b cross-linker separately first before mixing them together.
2. Remove the air bubbles in the silicone mix by vacuum degas at 0.001 mbar (0.1 Pa) for 10 minutes.
3. The silicone mix can be dispensed with a syringe.
4. Cure the silicone at 25°C for 24 hours.
5. Avoid contamination with heavy metals, amines and sulphur compounds as the silicone catalyst can be easily poisoned. Silicone may not

cure properly when contaminated.

6. Wear rubber gloves when handling silicone resins and cross-linkers.

Recommended Cure

Temperature	Cure Time
25°C	24 hours

Storage

Store both Part A resin and Part B cross-linker in a cool and dark place to prolong shelf life.

Packaging & Dimension

- 300 ml plastic jar
- 500 g plastic bottle
- 1 kg plastic pail
- 20 kg pail

Environment, Health & Safety

This product is RoHS compliant. It does not contain any known carcinogenic, mutagenic or teratogenic components.

Contact Information

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