

ZS-GF-5299E | RTV-2 Silicone Potting Compound



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Package:
25KG/pail

Color:
Black,
White,
Grey,

Shelf life:
12 months from the
manufacturing date under
25°C

Compliance:
REACH
ROHS
UL

Application methods :
Manual or automated
dispense

5299E is a low-viscosity two-component addition silicone potting compound with medium thermally conductive. It can be applied to the surface of PC, PP, ABS, PVC and other materials and metal materials.

Features:

- Room temperature or heat accelerated cure
- No substance is released during curing
- Flexible and stable from -40 °C to 200 °C after cured
- Excellent electrical properties with high impedance and high dielectric strength
- Excellent anti-sedimentation design, suitable for long-distance transportation and long-term storage

Applications:

- Suitable for general potting/encapsulant material of power supplies or other components thermal release

Limitations :

Reasons for poor curing of addition silicone potting compound:

1. Contact materials: When in contact with the following ingredients, it will affect the surface curing. The slight one will only cure incompletely on the surface, and the heavy one will cause permanent or even incomplete curing:
 - Release agent, such as detergent;
 - Plasticizers, such as certain plasticizers in insulating plastics, wires and protective coils;
 - Substances containing nitrogen, phosphorus, sulfur and halogen, such as natural rubber and neoprene;
 - Soldering flux, such as rosin;
 - Organometallic (lead, tin, mercury, etc.);
 - Amine-containing substances, such as polyurethane and epoxy resin;
 - Condensation silicone sealant or potting compound.
2. Environment: When using, avoid residual oil in the container or the object being used; avoid some impurities falling into it;

Technical service and safety:

Technical details are available for customers.

For more information about safety, please refer to the MSDS.

avoid contact with some commonly used plasticizer plastic and rubber glove; whether the vacuum equipment or oven has used (at the same time) epoxy resin, polyurethane, condensation silicone products.

3. Operational aspects: The mixing ratio is not carried out in accordance with the technical parameters; because some products have not been used for a long time, there is some sedimentation, and each component is not fully stirred before use.

Operation:

1. Before mixing: Part A and Part B should be respectively thoroughly stirred.
2. When mixing: Thoroughly mixed in a 1 to 1 ratio and stir well.
3. De-airing: Put the mixture under vacuum if it has many small voids.
4. Potting: Pot the mixture into the applications as soon as possible before becoming thickening.
5. Curing: room temperature curing or heat curing. The higher the temperature, the faster the curing.

Transport and storage:

This product is non-flammable and non-explosive, which can be delivered by normal means of transportation. The products should be stored under 25°C, in the cool and dry place.

Technique parameters:

	Item	Part A	Part B	Standard
Uncured	Color	Grey,Black,White	White	Q/ZS 1-2016
	Viscosity(cps, 25°C)	1500~3000	1500~2500	GB/T 10247
	Mixing Ratio by Weight	1 : 1		Q/ZS 1-2016
	Viscosity after Mixing(cps, 25°C)	1500~3000		GB/T 10247
	Working Time(min, 25°C)	30-50		Q/ZS 1-2016
	Potting Time(hr, 25°C)	3-5		GB/T 531.2
Cured	Hardness(shore A)	40-50		GB/T 531.2
	Thermal Conductivity[W/(m·K)]	≧0.6		ASTM D5470
	Dielectric Strength(KV/mm)	≧18		GB/T 1695
	Dielectric Constant(1.0MHz)	2.4~3.0		GB/T 1694
	Volume Resistivity(Ω·cm)	≧1.0×10 ¹³		GB/T 1692
	Specific Gravity (g/cm ³)	1.56±0.02		GB/T 13354
	UL 94 Flame Classification	UL94 V0		UL 94
	Coefficient of Thermal Expansion (ppm/°C)	220		HGT 2625-1994

Suggestions and statement:

It is recommended that users need to do test before use. Due to the diversity of practical applications, our company does not assume any direct, indirect or accidental losses. If users encounter any problems during use, please contact our company's after-sales service department, and we will try our best to help you.

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