

## PRODUCT INTRODUCTION

### ZS-GF-5299B

#### 1. Features

ZS-GF- 5299B is supplied as two-part thermal conductive silicone gel which can be either room temperature or heat cured, and it can be heated accelerated for faster cure. This product will not release of low molecular. It is adapted to all kinds of material like PC、PP、ABS、PVC and metal's surface, which has good stability under  $-60^{\circ}\text{C} \sim 200^{\circ}\text{C}$  , fully comply with European Union ROHS directive requirements.

#### 2. The typical use

- 1) Potting the power modules to dissipate heat and protect the modules.
- 2) Filling and heat dissipation of new energy vehicle battery pack.

#### 3. Tech.Data

item		Part A	Part B
Uncured	Appearance	Light Red	Grey
	Viscosity(cps,25°C)	20000~40000	20000~40000
	Mixing ratio by weight	1 : 1	
	Viscosity after mixing(cps,25°C)	20000~40000	
	Potting life ( min, 25°C )	10-20	
	Molding time ( hr, 25°C )	0.5-2	
Cured	Hardness(shore A)	45-65	
	Thermal conductivity[W/ (m·K) ]	$\geq 1.5$	
	Dielectric strength (kV/mm)	$\geq 10$	
	Dielectric constant (1.0MHz)	2.8-3.3	

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	Volume Resistivity ( $\Omega \cdot \text{cm}$ )	$\geq 1.0 \times 10^{12}$
	specific gravity	2.8 $\pm$ 0.05

The above data before curing is measured under the condition of room temperature on the same day when our products is produced. Mechanical properties and electrical property data are test after completely cured. Data caused by the different test conditions or product improvement , our company does not assume any relevant responsibility.

#### 4.Operation

1. Mixed: The appearance of the glue is semi-flowing. It is recommended to use static mixing for mixing to avoid mixing with air.
2. Potting: Glue should be aligned with the sizing part. Continuous sizing is recommended to avoid intermittent sizing.
3. Curing: Room temperature curing or heat curing. The higher the temperature, curing speed is more quickly.

#### 5. Note

- 1).Product should be stored in sealed containers, Mixed rubber should be pot as soon as possible that avoid to causing waste.
- 2).This product is not to dangerous, but not to eat and enter eyes.
- 3). After a period of time deposit, rubber have stratification. Please mix it to use, do not affect performance.
- 4)Glue contact following material will no cure, in the process, please pay attention to avoid contacting with the following material:
  - a.Organic tin compounds and containing organic tin silicone rubber.
  - b.Sulphur, sulfide and sulfur rubber materials.
  - c.Amine compounds and containing melamine material.

#### 6. Packing, Storage and transportation

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1. 50mlAB/pcs, 400mlAB/pcs.
2. The shelf life is 180days under 25 °C, if out of date, please try firstly before potting.
3. Such products are non-dangerous goods, can be transported as common chemicals. Be careful during transport and prevent the leakage.

### **7.Suggestions and statement**

Suggest users to do the applicability test before the formal use of this product. Due to the diversity of practical application, we won't c responsibility for the problems in special conditions of use about our products. We are not responsible for any direct, indirect or accidental damage. But users can contact my company's after-sales service when you have any problem in the using process, and we will try to help you.

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