

5299W-S Features

- * Two components, fast room temperature cure.
 - * Adhesion with PV substrates and junction box materials.
 - * Excellent resistance to durability tests.
- Thermal cycle test: -40~85 °C/200 cycles,
Damp-heat test: 85 °C/85 °C/1000h

APPLICATIONS

Silicone potting compound for PV junction box providing environmental protection and thermal management.

General properties

Before mix

Part A:

	Typical	value
Appearance		White liquid
Viscosity (cps)	4200	3500-5000

Part B:

Appearance	Colorless or light yellow transparent liquid	
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Mix features

Appearance		White liquid
Mix ratio	5:1	(by weight)
Mix Viscosity (cps)	3000	2000-4000
Tack-free time (min,25°C)	17	10-30
Cure time (min 25°C)	50	30-120

After total curing

Tensile strength (Mpa)	1.2	≥0.8
Hardness (shore-A)	43	30-50
Volume resistivity (Ω.cm)		

3.0×10^{14} $\geq 1.0 \times 10^{14}$

Dielectric strength (KV/mm)

21 ≥ 18

Thermal conductivity [W (m·K)]

0.3 ≥ 0.3

Dielectric constant (1.2MHz)

3.2 ≤ 3.3

Working temperature (°C) -60-200

HOW TO USE

Weight

Weight A and B component accurate refer to the mix ratio.

Mix

Mix A and B in one container completely.

Potting

Potting the mix compound into junction box.

Cure

Waiting the compound cure in room temperature situation about 1 hour before next process.

Storage

Keep the container tightly sealed when not in use.

Cautions

- 1, Far away from children by storage.
- 2, In case of contact with skin, wash with water.
- 3, If accident contact with eyes, flush with plenty of water immediately.
- 4, Proposed use in a well ventilated place.
- 5, Product safety information refers to MSDS.

Packaging

Ordering code: SHANGHAI 413107
12kg per set

Part A: 4131A6, 10kg per barrel

Part B: 4131B2, 2kg per pot

Storage conditions

Shelf life is 8 months under dry and cool place .