

Technical Data Sheet

Revision Date: 20 April 2024

Special Sealant For Solar Photovoltaic Modules

DESCRIPTION

Alstone Solar 369 is a single component moisture cured neutral silicone sealant with good sealing performance and cohesion. This product has good adhesion to aluminum, tempered glass, composite backing materials, and junction box materials. It does not corrode junction box materials and can be used for bonding and sealing of solar photovoltaic panel module frames and junction boxes.

APPLICATIONS

Mainly used for bonding and sealing of solar photovoltaic module frames (aluminum frames), backplates (TPT panels), and junction boxes (ABS); Adhesion of various lighting fixtures and electronic components.

TECHNICAL DATA

| Items: | Test Std | Requirement | Typical value |
|----------------------------|--------------|---------------------------------------|---------------|
| Appearance | / | Black, Grey, White, homogeneous paste | / |
| Density | GB/T 13477.2 | 1.45 ± 0.1 | 1.44 |
| Sagging properties (mm) | GB/T 13477.6 | ≤ 3 | 0 |
| Tack free time (min) | GB/T 13477.5 | 5~15 | 10 |
| Curing speed (mm/d) | HG/T 4363 | ≥ 2.5 | 3.1 |
| Shore A-hardness | GB/T 531.1 | 45~65 | 50 |
| Tensile strength (MPa) | GB/T 528 | ≥ 2.2 | 2.8 |
| Elongation at break (%) | GB/T 528 | ≥ 300 | 430 |
| Shear strength | GB/T 7124 | ≥ 1.2 | 1.6 |
| Flame retardant grade | UL94 | HB | HB |
| Operating temperature (°C) | / | -40~90 | |

Notes: All data above were tested under standardized condition at $23 \pm 2^\circ\text{C}$ 、 $50 \pm 5\% \text{RH}$

DIRECTIONS FOR USE

- Surface treatment: Clean the surface of the adhered or coated material to remove rust, dust, and oil stains.
- Use a glue gun to evenly apply glue, ensuring that the sealant is in close contact with the substrate and there is no missing glue.
- After the operation is completed, if the glue is not used up, it needs to be sealed and stored.
- When reusing, if there is a slight crust at the sealing area, it can be removed without affecting normal use.
- Before use, it is necessary to conduct adhesive and compatibility tests on the substrate, and if necessary, conduct contamination tests to confirm compliance before construction.

PACKAGING

| | |
|-----------|------------|
| Cartridge | 300ML |
| Sausage | 600ML |
| Drum | 25KG/250KG |

TRANSPORT AND STORAGE

- Transport: Keep away the sealed product from moisture, the sun, high temperature and avoid collisions.
- Storage: Keep sealed into cool, dry place. Temperature: 5~25°C. Humidity: ≤50%RH.
- Shelf Life: Cartridge and Sausage 12 month, Drum 9 month.

SAFETY

- Keep away from children.
- Avoid contacting with skin and eye. For skin contacted, remove the sealant by cloth, wash skin thoroughly with soap and water.
- For eye contacted, hold eyelids apart and flush thoroughly with water, contact physician.

DISCLAIMER

All recommendations concerning our products, including transportation, storage, and handing are based on our current knowledge and experience under normal conditions. In practical application, results may differ because of materials and actual site conditions change, our company do any guarantee and bear any legal responsibility. In order to ensure the bonding effect and the compatibility of products and materials, it is recommended to do the compatibility test or consult our company's Technical Services before proceeding with the full application.