

1527 Silicone Sealant For PV Modules

Mar. 2018

TECHNICAL DATA SHEET

PRODUCTION DESCRIPTION

White, UL certificated, super resistance to ultra violet(UV), rain, contamination and hail. For sealing the side frames of solar cell, sealing/adhesive the junction boxes of solar cell and for sealing the solar energy lamps.

TYPICAL APPLICATIONS

- Sealing the frames of solar cell.
- Sealing/adhesive the junction boxes of solar cell .
- Sealing the solar energy lamps.

UNCURED PROPERTIES

Base Resin.....Poly(dimethyl)siloxane
 Color..... White
 Viscosity (cps @ 25°C).....White paste
 Cure Speed(Fixture/Full).....6min./24 hrs. (2mm)
 Specific Gravity (g/cm³)1.37
 Flashpoint (°C)>93

Cured Specifications: Cure speed will vary with temperature, relative humidity, depth of material and presence of moisture.

CURED PROPERTIES

Measured on cured sheets ~2mm. Cured @ (23±2)°C, (50±5)% RH for 14 days, tested at 25°C.

Operating Temperature Range(°C)-54 to 210
 Hardness (Shore A) (ISO7619, GB/T531)48
 Elongation at break (%) (ISO37, GB/T528).....300
 Tensile Strength (MPa) (ISO37, GB/T528).....2.3
 Adhesion Strength(MPa) (ISO4587, GB/T7124).....1.8

Damp-Heat aging properties(Damp-Heat aging at 85°C, 85%RH for 1000h)

Elongation at break (%) (ISO37, GB/T528).....320
 Tensile Strength (MPa) (ISO37, GB/T528).....1.6

Electrical Properties

Volume resistivity(Ω.cm) (IEC60093, GB/T1692)
1.0×10¹⁵
 Breakdown tension (kv/mm) (IEC 60243-1, GB/T16-95)20

APPLICATION METHOD

- For best result, clean and dry all surface to be sealed.
- Apply a continuous and even bead of silicone to one surface.
- Assemble parts. Remove excess with knife.

STORAGE AND SHELF LIFE

When stored in a cool, dry area in unopened containers at room temperature, 1527 Silicone Sealant For PV Modules has a usable life of 12 months from the date of manufacture.

CAUTION

- Allow adequate ventilation when using.
- Avoid prolonged skin contact.
- In case of eye contact, flush with water and seek medical attention.
- This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.
- Keep away from children.

For complete safety and handling information, please refer to the appropriate Material Safety Data Sheets prior to using this product.

For technical assistance, please call +86-512-87775588.

ORDERING INFORMATION

Stock No.	Unit Size
152765	310ml
152764	400ml
152763	600ml
15276602	25kg
15276903	270kg

Note

The data provided herein are typical values for the purpose of technical reference only, should not be considered as the product specification or acceptance standard. All the information is believed by Tonsan Adhesive Inc. ("Tonsan") to be accurate and reliable, but due to the differences in the application conditions, substrate surfaces and/or curing conditions, Tonsan strongly recommends that the user should perform necessary tests before any purchase or practice, to determine the suitability of our product for the intended use. Furthermore, the storage and shipping conditions could also affect the stability, physical and mechanical properties of the product. Tonsan will not assume the responsibility for the results obtained by the user or any third parties, from the methods out of Tonsan's control.