

1527 Silicone Sealant For PV Modules

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/cm ³)	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)	40
Elongation at break (%) (ISO37, GB/528).....	280
Tensile Strength (MPa) (ISO37, GB/528).....	2.3
Adhesion Strength(MPa) (ISO4587, GB7124).....	1.5

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

Elongation at break (%) (ISO37, GB/528).....	260
Tensile Strength (MPa) (ISO37, GB/528).....	1.6

Electrical Properties

Volume resistivity(Ω.cm) (IEC60093, GB/T1692)4.5×10 ¹⁵
Breakdown tension (kv/mm) (IEC 60243-1 , GB/T1695)26

APPLICATION METHOD

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

STORAGE AND SHELF LIFE

Product shall be ideally store in a cool, dry area in unopened containers at a temperature between 8°C to 28 °C unless otherwise labeled. Optimal storage is at the lower half of this temperature.

CAUTION

- a) Allow adequate ventilation when using.
- b) Avoid prolonged skin contact.
- c) In case of eye contact, flush with water and seek medical attention.
- d) 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.
- e) Keep away from children.

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

Note:

The data contained herein are for reference only, and are believed to be typical values and should not be regarded as criteria for checking and accepting. All above data are obtained in TONSAN laboratories in standard conditions; TONSAN can guarantee that they are reliable, but TONSAN can not guarantee that the actual

1527 Silicone Sealant For PV Modules

TECHNICAL DATA SHEET

performances will not deviate due to different application ambient, different material surfaces and different curing mechanism. Storage conditions, shipping vehicles and etc. can affect product stability, mechanical and physical performances. We cannot assume responsibility for the results obtained by others over whose methods we have no control. We strongly suggest that the users do a test based on the data before formal use of this product.

For technical assistance, please call +86-10-88795588.

ORDERING INFORMATION

Stock No.	Unit Size
152765	310ml
152764	400ml
152763	600ml
152766	20kg
152769	235kg

Distributed by:

CHRISTOPHER

Christopher Associates, Inc.

3617 West MacArthur Blvd.

Suite 507

Santa Ana, CA 92704 U.S.A.

714.979.7500

www.christopherweb.com