

Materials for PV Junction Box

TECHNICAL DATA SHEET

Junction Box P.N. SIJ009X

PRODUCTION DESCRIPTION

is two -component, room temperature cure silicon system, used for electronic component applications on assembly line.

TYPICAL APPLICATIONS

Typical applications involve PV junction box.

UNCURED PROPERTIES

Chemical type.....	Silicone
Color(Mixed)	white
Mixed Rate(weight).....	6: 1
Mixed Rate(volume).....	4: 1
Viscosity of part A (mPa·s)	7000
Viscosity of part B (mPa·s)25
Specific Gravity of part A (g/cm ³)	1.47
Specific Gravity of part B (g/cm ³).....	0.99
Specific Gravity after mixed(g/cm ³).....	1.40
Pot Life(min)	8
Gel Time(min)	60

Cured Specifications: The mix of part A and part B initiates the reaction. There is a secondary cure with atmospheric moisture that promotes full cure over 7 days.

CURED PROPERTIES

Measured on cured sheets ~2mm. Cured @

(23±2)°C, (50±5)%RH for 7 days, tested at (23±2)°C.

Operating Temperature Range(°C).....	-50~150
Tensile strength(MPa) (ISO37, GB/528)	1.2
Hardness (ShoreA) (ISO7619, GB/T531).....	40
Elongation at break (%) (ISO37, GB/528).....	110
Thermal Conductive(W/m.°C) (ASTM E1461)	0.30
Volume Resistivity(Ω.cm) (IEC60093, GB/T1692).....	1.0×10 ¹⁵
Breakdown tension (kv/mm) (IEC 60243-1, GB/T1695).....	23

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

Volume Resistivity(Ω.cm) (IEC60093, GB/T1692).....	1.0×10 ¹⁵
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APPLICATION METHOD

1. Part A should be blended thoroughly before mix with Part B in order to make filling material distribute evenly;
2. Mix evenly according to the ratio;
3. Pot the mixed material;
4. Recommended using automatic dispensing equipment to applying the potting compound.

STORAGE AND SHELF LIFE

Product shall be ideally stored in a cool, dry area in unopened containers at room temperature. Keep away from children.The shelf life is 6 months.

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.

ORDERING INFORMATION

Stock No.	Unit Size
152110	14kg

BOX Product Specification

1. Product Major Component

No.	Major Component	Material	Remark
1	Outer Box	PPO	
2	Connectors	PC	
3	Nut	Nylon	
4	Hardware	Copper	
5	Diodes	10SQ050	
6	Seal Ring	Rubber	

2. Technical Characteristics

No.	Item	Standard
1	Appearance	Uniform Color
2	Dimension	154*137*25mm
3	Diodes	6/10SQ050
4	Rated Voltage	DC1000V
5	Rated Current	20A
6	Shunt Current	14A
7	Temperature Range	-40~+85℃
8	Protection Degree	IP67