

PRODUCTION DESCRIPTION

1521 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
Full Cure (h).....	24

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 C177).....	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
Breakdown tension (kv/mm)	
(IEC 60243-1, GB/T1695).....	23

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 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 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
152110	14kg

Distributed by:

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