

PT-Si3011



Solvent-Free Conformal Coating

INTRODUCTION

CC3011 is a one-component, low viscosity silicone conformal coating material that cures on exposure to atmospheric moisture to form a flexible elastomer protective coating. ECC3011 conformal coating cures quickly in ambient conditions without the need for curing equipment, and can achieve faster tack-free time with exposure to mild heat. ECC3011 conformal coating can help reduce the potential for corrosion of electronic components, and under certain test conditions* has been found to surpass other polymers such as acrylics, polyurethane, polyolefin and other silicone polymers in corrosion prevention

FEATURES

- Fast tack-free time
- Solvent-free formulation (100% solid content)
- Contains UV indicator for ease in inspection under black light
- Continuous operating temperature range of -40 ~ 150 °C
- Flame retardant: UL94V-0 certified (File No. E135148)
- Meets IEC60068-2-52 Severity 5 standard for Salt Spray performance
- Meets IEC60068-2-60 Method 4 standard for Mixed Gas Corrosion performance
- Meets IPC-CC-8308 / MIL-I-46058C standard for Appearance, Fluorescence,
- Thickness, Flexibility, Dielectric Withstanding Voltage, Moisture and Insulation
- Resistance, Thermal Shock, Temperature and Humidity Aging.

TYPICAL UNCURED PROPERTIES

PROPERTIES	Unit	Value
Appearance		Translucent
Viscosity 25°C, cps	mPa.s	110
Tack free time (1) (23C, 50% RH)	min	3
Cure time (2) (23C, 50%RH)	min	10
Cure time (2) (60C, 15% RH)	min	2

TYPICAL CURED PROPERTIES

PROPERTIES	Unit	Value
Appearance		Translucent, elastomer
Density	g/cm ³	0.99
Hardness (type A)		35
Volumn Resistivity	MΩ·m	1 x 10 ⁷
Dielectric Strength	kV/mm	20
Dielectric Constant (60Hz)		2.78
Dielectric Loss (60Hz)		0.002

Typical properties are average data and not to be used as or to develop specifications.
(1)Thickness:100µm (2)Thickness:100µm, 180 °peel

Potential Applications

- Conformal coating of electrical and electronic parts
- Moisture-proof coating of circuit boards
- Thin section potting of electrical and electronic parts
- Substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene methyl ethyl ketone (MEK) etc
- Wear eye protection and protective gloves as required while handling.
- Adequate ventilation must be maintained in the work area at all times.
- While the typical operating temperature for silicone materials ranges from -45°C to 200°C, the long-term maintenance of its initial properties is dependent upon desigrelated stress considerations , substrate materials, frequency of thermal cycles, and other factors

Currently Available Packaging

1kg can in case of 10

18kg pail

18kg bladder pack

* Based upon comparative tests performed by or contracted by the Manufacturer and conducted in 2016 according to IEC standards for salt spray and mixed gas corrosion tests, using a sample of select non-manufacturer competitive product offerings.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. The manufacturer maintains an around-the-clock emergency service for its products. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with other products (for example, primers) may require additional precautions. Please review and follow safety information provided by the manufacturer of such other materials.