

AS1811 1 Part Non-Corrosive Neutral Cure Adhesive Sealant (Electronic Grade)

Description

This is a non-corrosive, neutral cure, 1-part, RTV (Room Temperature Vulcanising) silicone adhesive sealant. It is one in a range of Acetone cure products which are solvent free. It exhibits excellent primerless adhesion to many substrates and cures rapidly at room temperature when in contact with atmospheric moisture to form a tough rubber. This product will not corrode copper or its alloys and is suitable for use with electronic components.

Key Features

- UL94 V0 recognised in file No. E334038
- Thermally conductive
- Non corrosive
- Low volatile content

Application

TIM for electronic and thermal management applications

Use and Cure Information

This product is a ready for use 1 Part system. If supplied in cartridges it can be applied using either manual or pneumatic dispensing guns. It can also be applied from bulk containers using conventional drum dispensing equipment.

All surfaces to which the sealant is to be applied should be clean, dry and free from grease, dirt, and loose material. Priming of surfaces is not normally required. If using as an adhesive, it should be applied to one clean surface and the other clean surface brought into contact with it within the tack free time stated opposite. For optimum bond strength, the thickness of the sealant joint should be a minimum of 1 mm.

The sealant will cure upon exposure to atmospheric moisture, ideally between 20 to 30 °C and 40% to 70% Relative Humidity. Time taken for cure will depend on the thickness of the joint, humidity and temperature. Joints should be left undisturbed for at least 24 hours, but preferably longer to effect sufficient depth of cure. Full cure requires 7 days.

“For pneumatic dispensing of 310 ml cartridges, the recommended pressure is 2.25 to 3.45 bar (40 to 50 psi). Dispensing pressure above the recommended limits may lead to gas bypassing the piston, causing spluttering at the nozzle and poor bead quality”

Health & Safety

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Safety Data Sheets available on request.

Packaging

CHT Adhesives are available in a variety of packaging including cartridges and bulk containers. Please contact our sales department for more information.

Users are advised to carry out their own tests on clean, degreased substrates to ensure satisfactory adhesion is achieved.

Stress cracking can appear on some grades of polycarbonate and poly(methyl methacrylate). Users are advised to carry out initial testing to ensure product compatibility.

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Property

Uncured Product

Appearance
Cure Profile
Cure Through to 3 mm Depth
Cure Type
Extrusion Rate g/min
Rheology
Self Bonding
Tack Free Time / Skin Formation at 23°C/73°F

Cured Product

7 days at 23+/-2°C and 50+/-5% humidity

Color
Density
Hardness Shore A
Max Working Temp
Min Working Temp
Thermal Conductivity Heat Flow Meter
Thermal Conductivity Lees Disc
UL 94V-0
UL File No.

Electrical Properties

Dielectric Constant
Dissipation Factor
Volume Resistivity (Ohms cm)

Storage

Max Storage Temperature
Shelf Life

Test Method

Value

Thixotropic paste
23+/-2°C and 50+/-5% humidity
18 hr
Acetone
57 g/min
Paste
Yes
3 min

White
2.75 g/cm3
61
200 °C / 392 °F
-50 °C / -58 °F
2.12 W/mK
3.02 W/mK
Yes
E334038

4.92
0.008232
6.17E+14 ohms cm
40 °C / 104 °F
12 mths

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