

CSL588 | Electronic Grade Silicone Sealant



Benefits

- Non-corrosive
- Low stress after curing
- Maintains stress-relieving properties in severe environments
- Electrically insulating
- Water repellent



www.cslsilicones.com

Electronic Sealants and Adhesives

Silicone sealants are extremely versatile in the electrical and electronics assembly process. They can be used to attach components within electronic modules, as form-in-place gaskets, or to seal openings in the module to exclude dirt, water or other contaminants and to provide protection from exposure to extreme environmental conditions like high temperature and humidity.

Elastomeric sealants due to their stress relieving properties are also used to protect against damage to module components and interconnections due to mechanical stress, thermal stress, and vibration thereby significantly increasing the reliability of the electronic module or component.

Silicone sealants are ideal for applications such as the assembly of rugged mobile computers engineered to withstand drops, spills, dust and grime and to perform in the harshest environments.

Why do silicones excel in electronic sealing applications?

Silicone sealants possess inherent physical properties that make them an excellent choice for sealing electronics; silicone sealants:

- are easy to use and repair
- have excellent electrical properties
- can be thermally conductive
- resist ultra-violet rays, ozone and weathering
- are non-corrosive and have low toxicity
- are chemically resistant
- are flexible and absorb mechanical shock and vibration
- are resistant to humidity, moisture and are water repellent
- have wide operating temperature range

CSL588 100% Silicone Electronic Grade Sealant

CSL588 is a one-part, RTV (Room Temperature Vulcanizing) electronic grade silicone sealant/adhesive.

CSL588 can be used in corrosion-sensitive electronic equipment with no adverse effects.

CSL588 remains flexible from -60°C to 200°C (-76°F to 392°F).

CSL588 has excellent dielectric properties, high surface resistivity and repels water to protect sensitive electronic components.

CSL588 is recognized under the Components Program of Underwriters Laboratories Inc.®

CSL588 | Electronic Grade Silicone Sealant



Typical Applications

- Adhering module lids and baseplates
- Sealing in and around wires and other openings in the module
- Protecting terminal electrodes
- Cushioning or stabilizing fragile electronic components

Features

- **Recognized under the Components Program of Underwriters Laboratories Inc.®**
- **Neutral cure formulation will not corrode copper, brass or silver**
- **Electrically insulating**
- **Excellent unprimed adhesion**



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CSL588 Intended Uses

CSL588 can be used as a durable, general purpose sealant/adhesive in a wide range of electrical and electronic applications.

Typical applications include lead wire entries, conduit terminal boxes and connectors, component mounting, conduit ends, splices, cover plates, coaxial cable connectors, printed circuit boards, conductor entry holes.

CSL588 Typical Properties[‡]

Cure System	One part RTV/Oxime
Flowability	Non-flow
Extrusion Rate ¹ [g/min]	150
Cure Time at Standard Conditions ² [hours]	24
Tensile Strength ³ ASTM D412 [psi]	250
Hardness ³ ASTM D2240 [points]	27 Shore A
Elongation at Break ³ ASTM D412	400%
Dielectric Strength ³ ASTM D149 [V/mil]	1101.3
Volume Resistivity ³ ASTM D257 [ohm.cm]	>1.4 x 10 ¹² ohm.cm
Dissipation Factor, 100 Hz to 100 kHz (ASTM D150)	0.820, 0.763
Dissipation Constant, 100 Hz to 100 kHz (ASTM D150)	0.0015

[‡]Data is subject to change without notice. These values are not intended for use in preparing specifications. For more complete information, please refer to the current Technical Data Sheets for these products.

NOTES

- 1 Minimum extrusion rate @ 25°C (90psi, 3.2mm orifice)
- 2 Standard Conditions are 25°C (77°F) and 50% relative humidity
- 3 Cured for 7 days at Standard Conditions²

CSL588 Availability

Colors

CSL588 is available in white, clear and black for quick delivery; custom colors may be available upon request.

Packaging

CSL588 is available in 300mL (10.2 fl. oz.) cartridges, 19L (5 US gallon) pails and 189L (50 US gallon) drums.

Shelf Life and Storage

CSL588 has a shelf life of fifteen months from date of manufacture when stored in the original unopened container in dry, shaded conditions, away from sources of heat or ignition, and stored at or below 90°F (32°C).