



TYPICAL USES

- Durable, general purpose sealant/adhesive
- Wide range of electrical/electronic applications
- Lead wire entries
- Conduit terminal boxes and connectors
- Component mounting, conduit ends, splices
- Cover plates, coaxial cable connectors, printed circuit boards
- Conductor entry holes

PRODUCT DESCRIPTION

CSL588 is a one part, moisture cure, room-temperature vulcanizing (RTV), electronic grade 100% silicone sealant which cures to form a tough, permanently flexible rubber.

The non-corrosive curing system makes it ideally suited for protecting, sealing and insulating corrosion-sensitive electrical and electronic materials such as copper, brass and silver.

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

CSL588 has superior resistance to weathering including ozone, ultraviolet radiation and airborne chemicals.

APPLICABLE STANDARDS

- Recognized under the Components Program of Underwriters Laboratories Inc. - UL File No. E109726
- Plastics - Component (QMFZ2.E109726)
- CSL588 is EcoLogo Certified

PRODUCT CHARACTERISTICS AND PRACTICAL INFORMATION

Type	100% silicone, one-part RTV
Appearance	Smooth, non-slump paste
Temperature Range‡	
Application Temperature Range	Ambient to 50°C (120°F)
Useable Temperature Range	-60°C to 200°C (-76°F to 392°F)
Drying Time*	
Skin-over Time	5-10 minutes
Dry/Cure	24 hours
Full Physical Characteristics	7 days

PHYSICAL PROPERTIES

(Typical properties - values not to be used as specifications)

Uncured	
Specific Gravity	1.03
Extrusion Rate (3.2mm (1/8") orifice, 90 psi)	150 g/min
Cure System	Neutral (Oxime), Moisture Cure
Cured at standard conditions* for 7 days	
Durometer Hardness (ASTM D2240, Shore A)	27 points
Tensile Strength (ASTM D412)	250 psi (17.6 kg/cm ²)
Elongation at break (ASTM D412)	400%
Tear Resistance (ASTM D624, Die B)	4.9 kN/m (28 pli)
Dielectric Strength (ASTM D149)	1101.3 V/mil (433.6 kV/cm)
Volume Resistivity (ASTM D257)	>1.4 x 10 ¹² ohms-cm
Dissipation Factor (ASTM D150)	at 100 Hz: 0.820 at 100 kHz: 0.763
Dissipation Constant, 100 Hz to 100 kHz (ASTM D150)	0.0015

‡Please consult CSL for suitability for application at lower temperatures

*At standard conditions 77°F (25°C) and 50% relative humidity

COLORS

CSL588 is available in Clear, Black and White. Other colors are available; please contact CSL Silicones for custom color assistance.

SURFACE PREPARATION

All surfaces should be clean and dry, and free of dust, dirt, and grease. It is recommended that bonding surfaces be wiped with an oil-free solvent. Allow surface to dry thoroughly before applying sealant.

CSL588 has excellent unprimed adhesion to most substrates.

APPLICATION

CSL588 is ready-to-use and requires no mixing or additives. Curing begins as soon as the sealant is exposed to air. At conditions of 25°C (77°F) and 50% relative humidity, a bead of sealant, 3mm (1/8"), will skin over in 5-10 minutes and fully cure in 24 hours, attaining full physical properties in 7 days. Higher humidity accelerates cure. Cure time will also vary with the degree of confinement. Tooling, if necessary, should be done before skin-over takes place.

In confined cure conditions, CSL588 neutral cure sealant may discolor brass, copper, or other sensitive metals, and/or stress craze polycarbonate.

CSL588 should not be applied below grade, to surfaces under continuous water immersion, to substrates that bleed oils, plasticizers or solvents (e.g. impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets or tapes), to surfaces in direct contact with food, and to surfaces that will be painted over.

SAFETY PRECAUTIONS

CSL588 uses a neutral cure system, so no acetic acid or objectionable by-products are evolved during cure. Adequate ventilation should be provided with extensive use of this sealant.

On direct contact, uncured sealant may irritate eyes. Flush well with water and call a physician. Avoid prolonged contact with skin. See Safety Data Sheet available on this product.

This product is intended for use only by professional applicators in accordance with the advice given in this document, the Safety Data Sheet (SDS) and the container(s), and should not be used without reference to the SDS that CSL Silicones Inc. has provided to its customers. **KEEP OUT OF REACH OF CHILDREN.**

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards & regulations.

If in doubt regarding the suitability of use of this product, consult CSL Silicones Inc. for further advice.

PACKAGING

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

STORAGE

CSL588, when stored in original, unopened container in dry, shaded conditions, away from sources of heat or ignition, and stored below 32°C (90°F), has a shelf life of 15 months from date of manufacture.

Professional's Choice®

Le choix des professionnels®



Disclaimer

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this document without first obtaining written confirmation from CSL Silicones Inc. as to the suitability of the product for the intended purpose does so at his/her own risk. The information contained herein has been prepared in good faith to comply with applicable federal and provincial (state) law(s). However, no warranty of any kind is given or implied and CSL Silicones Inc. will not be responsible for any damages, losses or injuries that may result from the use of any information contained herein. While CSL endeavors to ensure all advice it gives about the product (whether in this document or otherwise) is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless CSL specifically agrees in writing to do so, it does not accept any liability whatsoever or howsoever arising for the performance of the product, or for any consequential loss or damage arising out of the use of the product. Any warranty, if given or specific Terms & Conditions of Sale are contained in CSL's Terms & Conditions of Sale, a copy of which can be obtained upon request. The information contained herein is liable to modification from time-to-time in light of experience and CSL's policy of continuous product improvement. It is the user's responsibility to check that this document is current prior to using the product. This document must not be used for specification writing.

Technical Data Sheet

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