

CV-2289

Controlled Volatility Potting and Encapsulating Silicone Elastomer

Product Profile

Description

- Two-part, 1:1 mix ratio (Part A:B), translucent silicone system
- Based on a dimethyl, diphenyl silicone copolymer
- Offers a high tear strength, good physical properties and a broad operating temperature range

Applications

- For applications requiring low outgassing and minimal volatile condensables under extreme operating conditions
- To provide protection of electric components and assemblies against shock, vibration, moisture, dust, chemicals and other environmental hazards
- Ideal for use in potting connectors, cable harness breakouts, molded high-voltage terminals, seals and gaskets due to its high tear strength

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Translucent	-	D2090	002
Cured: 15 min @ 150°C (302°F)				
Durometer, Type A	25	-	D412, D882	007
Tensile Strength	650 psi	4.5 Mpa	D412, D882	007
Elongation	350%	-	D412, D882	007
Dielectric Strength	500 Volts/mil	-	-	-
Volume Resistivity	1x10 ¹⁵	-	D257	040
Collected Volatile Condensable Material (CVCMM)	0.03%	-	E 595	072
Total Mass Loss (TML)	0.42%	-	E 595	072
Operating Temperature Range	-178°F to 500°F	-115°C to 260°C	-	-

Instructions for Use

Mixing

Mix Part A and B in a 1:1 mix ratio. CV-2289 is ideal for Static mix and dispense application.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a container rated for use and at least four times the volume of the material being deaerated. Hold vacuum until bulk deaeration is complete.

Substrate Considerations

Cures in contact with most materials common to electronic assemblies. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents. Units being encapsulated or potted should be clean and free of surface contaminants. Containers and dispensers being used should also be clean and dry. Cure inhibition can usually be prevented by washing all containers with solvent or volatilizing the contaminant by heating.

Note: Some bonding application may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

Adjustable Cure Schedule

Product cures at room temperature and a wide range of elevated temperatures and cure times to accommodate different production needs. Contact NuSil Technology for details.

Packaging

50 ml SxS Kit
 400 ml SxS Kit

Warranty

6 Months

Warnings About Product Safety

NuSil Technology believes that the information and data contained herein are accurate and reliable. However, the user is responsible to determine the material's suitability and safety of use. NuSil Technology cannot know each application's specific requirements and hereby notifies the user that it has not tested or determined this material's suitability or safety for use in any application. The user is responsible to adequately test and determine the safety and suitability for their application and NuSil Technology makes no warranty concerning fitness for any use or purpose. NuSil Technology has completed no testing to establish safety of use in any medical application.

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Specifications

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