

CV1-2640

Controlled Volatility Electrically Conductive RTV Silicone

Product Profile

Description

- Two-part, black, electrically conductive RTV silicone
- Based on a dimethyl silicone polymer
- 10:1 Mix Ratio (Part A:B)

Applications

- For applications requiring low outgassing and minimal volatile condensables under extreme operating conditions to avoid condensation in sensitive devices
- Use for RFI and EMI shielding in electrical and space applications
- Use to adhere covers onto housings or for any application where grooves and other configurations require a non-flowable to limited flow material

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance, Part A	Black	-	D2090	002
Appearance, Part B	Clear	-	D2090	002
Extrusion Rate*, Part A	300 gpm	-	C603	033
Extrusion Rate*, Part B	150 gpm	-	C603	033
Cured: 2 hours @ 65°C (149°F)				
Appearance	Black, elastomer	-	D2090	002
Specific Gravity @ 25°C (77°F)	1.07	-	D792	003
Durometer, Type A	40	-	D2240	006
Tensile Strength	525 psi	3.6 MPa	D412, D882	007
Elongation	225%	-	D412, D882	007
Volume Resistivity	20 ohm-cm	-	D257	040
Collected Volatile Condensable Material (CVCM)	0.02%	-	E595	072
Total Mass Loss (TML)	0.25%	-	E595	072
Operating Temperature Range	-85°F to 465°F	-65°C to 240°C	-	-

* Performed using a SEMCO® 44 nozzle with a 1/8" orifice and 90 +/- 5 psi air pressure

Instructions for Use

Mixing

Thoroughly mix 10 parts base to 1 part curing agent just prior to use.

Vacuum Deaeration

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

Substrate Considerations

Cures in contact with most materials. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

Note: Some bonding applications 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

100 Gram Kit
 250 Gram Kit
 500 Gram 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.

NuSil Technology has tested this material only to determine if the product meets the applicable specifications. (Please contact NuSil Technology for assistance and recommendations when establishing specifications.) When considering the use of NuSil Technology products in a particular application, review the latest Material Safety Data Sheets and contact NuSil Technology with any questions about product safety information.

Do not use any chemical in a food, drug, cosmetic, or medical application or process until having determined the safety and legality of the use. The user is responsible to meet the requirements of the U.S. Food and Drug Administration (FDA) and any other regulatory agencies. Before handling any other materials mentioned in the text, obtain available product safety information and take the necessary steps to ensure safety of use.

Specifications

Do not use the typical properties shown in this technical profile as a basis for preparing specifications. Please contact NuSil Technology for assistance and recommendations in establishing particular specifications.

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