

# EPM-2462

## Low volatility electrically conductive silicone elastomer

### DESCRIPTION

- Two-part, tan-colored, electrically conductive silicone
- 20:1 Mix Ratio (Part A: Part B)

### APPLICATION

- For applications requiring low volatility
- Well suited for form-in-place conductive gaskets
- Use as a thermally or electrically conductive interface material

### PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
<b>Uncured:</b>			
Appearance	Tan, paste	ASTM D2090	002
Work Time	2.75 hours	-	008
<b>Cured: 30 minutes at 150°C (302°F)</b>			
Specific Gravity	3.39	ASTM D792	003
Durometer, Type A	85	ASTM D2240	006
Tensile Strength	525 psi (3.6 MPa)	ASTM D412	007
Volume Resistivity	0.005 ohm-cm	ASTM D257, D4496	040
Thermal Conductivity	1.20 W/(mK) (29 x 10 <sup>-4</sup> cal/(cm·sec·°C))	ASTM E1530	101
<b>Coefficient of Linear Thermal Expansion</b>			
-100°C to -50°C	140 (µm/(m°C))	ASTM D3386	-
-30°C to 250°C	215 (µm/(m°C))	ASTM D3386	-
Volatile Content (1 hour at 275°C)	0.2%	ASTM D2288	004
Ionic Content, Cl	< 5 ppm	-	-
Ionic Content, K	< 7 ppm	-	-

Typical Properties	Average Result	Standard	NT-TM
Ionic Content, Na	< 5 ppm	-	-

The test data shown for this material is the average value for typical properties. All of these properties may not be tested on a lot to lot basis and cannot be used to draft specifications. Please [contact](#) NuSil® for assistance and recommendations in establishing limits for product specifications.

## INSTRUCTIONS FOR USE

### Mixing

Thoroughly stir Part A prior to weighing for Part B addition as the product separates. Mix Part A with Part B in a 20: 1 ratio 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

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

### Substrate Considerations

Cures in contact with most materials, exceptions include: sulfur-cured organic rubbers, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

### Adjustable Cure Schedule

Product cures at a wide range of cure times and temperatures to accommodate different production needs. [Contact](#) NuSil for details.

## OPERATING TEMPERATURE

The operating temperature range of a silicone in any application is dependent on many variables, including but not limited to: temperature, time of exposure, type of atmosphere, exposure of the material's surface to the atmosphere, and mechanical stress. In addition, a material's physical properties will vary at both the high and low end of the operating temperature range. Silicone typically remains flexible at extremely low temperatures and has been known to perform at -50°C (-58°F) as well as resist breakdown at elevated temperatures up to 250°C (482°F). The user is responsible to verify performance of a material in a specific application.

### Packaging

50 Gram Kit (0.051 kg)  
100 Gram Kit (0.101 kg)  
500 Gram Kit (0.502 ka)

### Warranty

12 Months

## ROHS AND REACH COMPLIANCE

Please [contact](#) NuSil's Regulatory Compliance department with any questions or for further assistance

## SPECIFICATIONS

Do not use the typical properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil for assistance and recommendations in establishing limits for product specifications.

## WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil provides a specific written warranty of fitness for a particular use, NuSil's sole warranty is that the product will meet NuSil's then current specification. NuSil specifically disclaims all other expressed or implied warranties, including, but not limited to, warranties of merchantability and fitness for use. The exclusive remedy and NuSil's sole liability for breach of warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. NuSil expressly disclaims any liability for incidental or consequential damages.

## WARNINGS ABOUT PRODUCT SAFETY

NuSil believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. The user is responsible to determine the material's suitability and safety of use. NuSil 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 makes no warranty concerning fitness for any use or purpose. NuSil has completed no testing to establish safety of use in any medical application.

NuSil has tested this material only to determine if the product meets the applicable specifications. (Please [contact](#) NuSil for assistance and recommendations when establishing specifications.) When considering the use of NuSil products in a particular application, review the latest Material Safety Data Sheet and [contact](#) NuSil 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, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

## PATENT / INTELLECTUAL PROPERTY WARNING

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