

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
Uncured:			
Appearance*	Tan, paste	ASTM D2090	002
Work Time*	2.75 hours	-	008
Cured: 30 minutes at 150°C (302°F)			
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 ⁻⁴ cal/(cm·sec·°C))	ASTM E1530	101
Coefficient of Linear Thermal Expansion			
Below Tg (-100°C to -50°C)	140 ppm/°C (140 μm/m/°C)	ASTM D3386	-
Above Tg (-30°C to 250°C)	215 ppm/°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	-	-

*Properties tested on a lot-to-lot basis. Do not use the properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular 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 Technology'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 Technology 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
100 Gram Kit
500 Gram Kit

Warranty

12 Months

ROHS AND REACH COMPLIANCE

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

SPECIFICATIONS

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WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC (hereinafter "NuSil Technology") is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil Technology provides a specific written warranty of fitness for a particular use, NuSil Technology's sole warranty is that the product will meet NuSil Technology's then current specification. NuSil Technology 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 Technology'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 Technology expressly disclaims any liability for incidental or consequential damages.

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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 Sheet 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, the user is advised to obtain available product safety information and take the necessary steps to ensure safety of use.

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