R-2634

Electrically conductive RTV silicone

DESCRIPTION

- Two-part, electrically conductive RTV Silicone
- Designed for enhanced performance in extreme low and high temperatures
- 100:0.5 Mix Ratio (Base: Curing Agent)

APPLICATION

- For RFI and EMI shielding for electrical and aerospace applications
- Excellent for formed-in-place conductive gaskets and grounding connections
- Use to adhere covers on housings or where grooves or other configurations require a non-flowable to limited flow material

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Gray-green	ASTMD2090	002
Flow (0.500 plunge)	1.2 inches (30.5 mm)	ASTM D2202	019
Work Time	3 hours	-	008
Extrusion Rate	160 gram/minute	ASTM C603	033
Cured: 7 days at ambient temperature and humidity			
Specific Gravity	3.41	ASTM D792	003
Durometer, Type A	80	ASTM D2240	006
Tensile Strength	250 psi (1.7 MPa)	ASTM D412	007
Elongation	90%	ASTM D412	007
Tear Strength	50 ppi (8.8 N/mm)	ASTM D624	009
Lap Shear Strength (primed w/ SP-121)	200 psi (1.4 MPa)	ASTM D1002	010
Volume Resistivity	0.001 ohm·cm	ASTM D1169	024

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 and testing parameters.

INSTRUCTIONS FOR USE

R-2634 is supplied in cartridges with a catalyst rod. Using the catalyst rod, premix the material with the mix head attached. Catalyze the material within the cartridge using the dasher rod. Extrude the prepared material using an appropriate caulking gun.

Note: Some bonding applications may require the use of a primer. NuSil Technology's SP-121 is recommended.

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.

ROHS AND REACH COMPLIANCE

Please contact NuSil Technology's Regulatory Compliance department with any questions or for further assistance.

SPECIFICATIONS

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.

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.

Packaging	Warranty
6 oz. Kit 50 Gram Kit 100 Gram Kit 180 Gram Kit	12 Months

WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology 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 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 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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