

NuSil Technology

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An ISO 9001 Certified Company

R-2634

Electrically Conductive RTV Silicone

Product Profile

Description

- Two-part, electrically conductive RTV Silicone
- Based on a diphenyl-dimethyl silicone copolymer with a broad temperature range
- 100:0.5 Mix Ratio (Base:Curing Agent)

Applications

- For RFI and EMI shielding for electrical and aerospace applications
- For applications in extreme operating conditions
- 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

Typical Properties

	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Gray-green paste	-	D2090	002
Flow, Base	0.28 inches	7.1 mm	D2202	019
Work Time @ 50% R.H.	3 hours	-	-	008
Extrusion Rate	90 gram/minute	-	C603	033
Cured : Cured 7 days @ 25°C (77°F), 50% R.H.				
Specific Gravity	3.36	-	D792	003
Durometer, Type A	80	-	D2240	006
Tensile Strength	250 psi	1.7 MPa	D412, D882	007
Elongation	90 %	-	D412, D882	007
Tear Strength	50 ppi	8.8 N/mm	D624	009
Lap Shear	195 psi	1.3 MPa	D1002	010
Volume Resistivity	-	0.001 ohm-cm	D1169	024
Operating Temperature Range	-175 to 445°F	-115 to 230°C	-	-

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 SP-120 is recommended.

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.

Packaging

50 Gram Kit
 100 Gram Kit
 6 oz Tube Kit (497.5 g)

Warranty

6 Months

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.

Patent Warning

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Warranty Information

NuSil Technology's warranty period is 6 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 any other expressed or implied warranty, including 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.