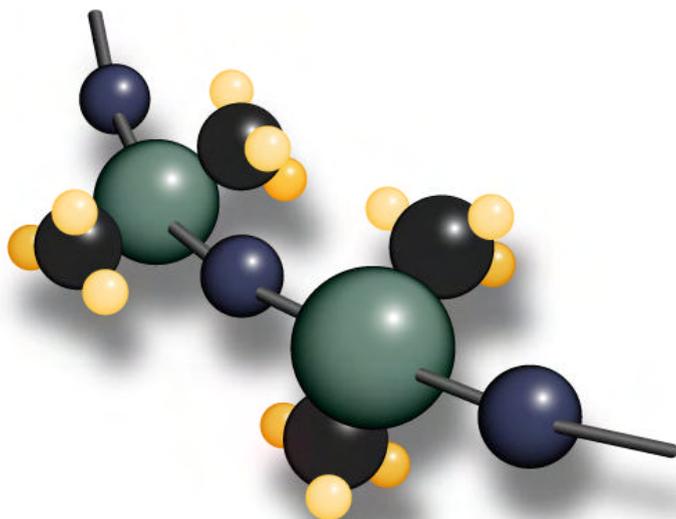


Polymer Systems Technology Limited

UK & Ireland Distributor



© 2011 - Polymer Systems Technology Limited TM
Unit 2. Network 4. Cressex Business Park,
Lincoln Road, High Wycombe, Bucks. HP12 3RF
Phone +44 (0) 1494 446610
Fax: +44 (0) 1494 528611
Web: <http://www.siliconepolymers.co.uk>
Email: sales@silicone-polymers.co.uk



EPM-2463

Low Outgas Electrically Conductive RTV Silicone Material

Product Profile

Description

- Two-part, alkoxy-cure, electrically conductive RTV silicone colored green-gray
- Maintains electric conductivity over a broad service temperature range
- Based on a diphenyl dimethyl silicone copolymer
- 100:0.5 Mix Ratio (Base: Catalyst)

Applications

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

Typical Properties	Result	Metric Conv.	ASTM	NT-TM
Uncured:				
Appearance	Green-gray paste	-	D2090	002
Flow (0.375" plunge for 30 seconds)	4 inches	10.2 cm	D2202	019
Work Time	2 hours	-	-	008
Cured: 7 days @ ambient temp. and humidity				
Specific Gravity @ 25°C (77°F)	3.30	-	D792	003
Durometer, Type A	80	-	D2240	006
Tensile Strength	300 psi	2.1 MPa	D412, D882	007
Elongation	75%	-	D412, D882	007
Tear Strength	55 ppi	9.7 kN/m	D624	009
Lap Shear Strength (primed w/ SP-120)	175 psi	1.2 MPa	D1002	010
Volume Resistivity	0.002 ohm-cm	-	D257	040
Thermal Conductivity	1.5 W/m-k	3.6 x 10 ⁻³ cal/(cm-sec-°C)	C177, C1045	101
Weight Loss (1hr @ 275°C)	0.7%	-	-	-
Ionic Content, Cl	<5 ppm	-	-	-
Ionic Content, K	<10 ppm	-	-	-
Ionic Content Na	<5 ppm	-	-	-
Operating Temperature Range	-178°F to 500°F	-115°C to 260°C	-	-

Instructions for Use

Mixing

Thoroughly stir base prior to weighing for curing agent addition, as the product separates. Mix 100 parts base to 0.5 part catalyst by weight, just prior to use.

Caution: Curing agent may cause skin irritation. In case of eye contact, irrigate with water immediately and seek medical attention. (Standard catalyst is dibutyl tin dilaurate.)

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 SP-120 silicone primer is recommended.

Packaging

50 Gram Kit
100 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.

Patent Warning

NuSil Technology disclaims any expressed or implied warranty against the infringement of any patent. NuSil Technology does not warrant the use or sale of the products described herein will not infringe the claims of any United States' or other country's patents covering the product itself, its use in combination with other products or its use in the operation of any process.

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.