

R28-2186

Non-slumping, general purpose silicone elastomer

DESCRIPTION

- A two-part, translucent, non-slumping silicone system
- 1:1 Mix Ratio (Part A:B)
- Offers high tear strength and excellent physical and electrical properties
- Provided in mix and dispense applicators

APPLICATION

- For applications requiring a non-slumping material with easy application
- Useful for potting, encapsulating and replicating surfaces and devices
- Ideal for providing protection of electronic components and assemblies against shock vibration, moisture, ozone, dust and other contaminants due to its excellent physical, thermal and electrical properties
- Ideal for molding or use in O-rings, potting connectors, cable harness breakouts, molded high voltage terminals, seals and gaskets due to its high physical strength

PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
Uncured:				
Appearance	Translucent to Milky White	-	ASTM D2090	002
Flow, Part A (0.375" plunge for 5 minutes)	0.02 inches	0.5 mm	ASTM D2202	019
Tack-Free Time	3.5 hours	-	ASTM C679	005
Work Time	6.5 minutes	-	-	008
Cured: 30 minutes at 150°C (302°F)				
Specific Gravity	1.12	-	ASTM D792	003
Durometer, Type A	25	-	ASTM D2240	006
Tensile Strength	1,150 psi	7.9 MPa	ASTM D412, D882	007
Elongation	650%	-	ASTM D412, D882	007

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
Tear Strength	75 psi	13.2 kN/m	ASTM D624	009
Dielectric Strength	730 Volts/mil	28.7 kV/mm	ASTM D149	-
Volume Resistivity	1 x 10 ¹⁵	-	ASTM D257	040
Operating Temperature Range	-85 to 465°F	-65 to 240°C	-	-

shipment when stored below 40°C in original unopened

INSTRUCTIONS FOR USE

Mixing

Part A and Part B mix in a 1:1 ratio when using the static mix and dispense cartridge. Attach a disposable static mix tip to the cartridge and dispense through the static mix head directly on to the substrate.

Substrate Considerations

Cures in contact with most materials common to electronic assemblies. Exceptions include butyl and chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents. Units being encapsulated or potted should be clean and free of surface contaminants. Containers and dispensers being used should also be clean and dry. Cure inhibition can usually be prevented by washing all containers with clean solvent or volatilizing the contaminants by heating.

Note: Some bonding applications may require the use of a primer. NuSil Technology CF1-135 silicone primer is recommended.

Adjustable Cure Schedule

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

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

Packaging

50 ml SxS Kit
 2 Pint Kit (910 g)
 2 Gallon Kit (7.28 kg)
 10 Gallon Kit (36.4 kg)

Warranty

12 Months

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.

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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Polymer Systems Technology Limited

Silicone Sales & Services UK - Ireland - Benelux

© 2024 - **Polymer Systems Technology Limited™**
Unit 2. Network 4. Cressex Business Park,
Lincoln Road, High Wycombe, Bucks. HP12 3RF

tel: +44 (0) 1494 446610

web: <https://www.silicone-polymers.com>

email: sales@silicone-polymers.co.uk

