

R-1082

RTV cure silicone dispersion

DESCRIPTION

— One-part RTV silicone elastomer dispersed in xylene

APPLICATION

 For potting, encapsulating, backfilling, and dampening applications requiring a firm gel with optical clarity

PROPERTIES

Typical Properties	Average Result	Metric Conv.	Standard	NT-TM
Uncured:				
Appearance	Clear to translucent. Light straw to slight bluish tint.	-	ASTM D2090	002
Non-Volatile Content	29%	-	ASTM D2288	004
Viscosity*	700 cP	700 mPas	ASTM D1084, D2196	001
Cured: 5 days (+4/-0) hours at ambient ten	nperature and humidity (remove from chase (at 24 ± 2 hours)		
Specific Gravity at 25°C (77°F)	1.09	-	ASTM D792	003
Durometer, Type A	25	-	ASTM D2240	006
Tensile Strength	1,425 psi	9.8 MPa	ASTM D412	007
Elongation	950%	-	ASTM D412	007
Tear Strength	125 ppi	22.0 kN/m	ASTM D624	009
Stress at 300% Strain	160 psi	1.1 MPa	ASTM D412	007

The test data shown for this material is the average value for typical properties. All of these properties may not be tested on a lot to lot basis and cannot be used to draft specifications. Please <u>contact</u> NuSil® for assistance and recommendations in establishing limits for product specifications. *GCA Precision Penetrometer, 19.5 gram shaft, 1 inch diameter, 5 seconds.



INSTRUCTIONS FOR USE

Mixing

Thoroughly stir material to ensure homogeneity. Exercise care to prevent solvent loss during deairing. Accomplish additional dilution for thin film applications by adding appropriate solvent. Mixer design/size/type, blade/propeller type, shear/RPM levels, and heat generated during mixing, are important parameters and should be addressed in order to have an adequately mixed dispersion. Warning: Consult the MSDS for R-1082 prior to use as the solvent carrier is hazardous.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable 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.

SPECIFICATIONS

Do not use the typical properties shown in this technical profile as a basis for preparing specifications. Please <u>contact</u> NuSil for assistance and recommendations in establishing limits for product specifications.

WARRANTY INFORMATION

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

WARNINGS ABOUT PRODUCT SAFETY

NuSil believes, to the best of its knowledge, that the information and data contained herein are accurate and reliable. The user

Packaging

1 Gallon (3.4 kg) 5 Gallon (17.0 kg) Warranty

12 Months

is responsible to determine the material's suitability and safety of use. NuSil 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 makes no warranty concerning fitness for any use or purpose. NuSil has completed no testing to establish safety of use in any medical application.

NuSil has tested this material only to determine if the product meets the applicable specifications. (Please <u>contact</u> NuSil for assistance and recommendations when establishing specifications.) When considering the use of NuSil products in a particular application, review the latest Material Safety Data Sheet and <u>contact</u> NuSil 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.

PATENT / INTELLECTUAL PROPERTY WARNING

NuSil disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil does not warrant the use or sale of the products described herein will not infringe the claims of any domestic or international patent/intellectual property right covering the product itself, its use in combination with other products, or its use in the operation of any process.