

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 temperature 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 psi | 22.0 kN/m | ASTM D624 | 009 |
| Stress at 300% Strain | 160 psi | 1.1 MPa | ASTM D412 | 007 |

*GCA Precision Penetrometer, 19.5 gram shaft, 1 inch diameter, 5 seconds.

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix just prior to further solvent addition. Exercise care to prevent solvent loss during deaering. Accomplish additional dilution for thin film applications by adding appropriate solvent, followed by mixing and deaering.

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 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

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WARNINGS ABOUT PRODUCT SAFETY

NuSil Technology believes, to the best of its knowledge, that the information and data contained herein are accurate and

Packaging

1 Pint (450 g)
1 Gallon (3.4 kg)
5 Gallon (17.0 kg)

Warranty

12 Months

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.

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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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