

R-1400

Silicone glob-top

DESCRIPTION

- One-part, black, platinum catalyzed silicone Glob-Top
- Thixotropic consistency

APPLICATION

- Provides protection for electronic assemblies
- Ensures microchip reliability by providing vital protection
- For applications that require precise delivery configurations

PROPERTIES

| Typical Properties | Average Result | Metric Conv. | Standard | NT-TM |
|--|----------------|--------------|-------------------|-------|
| Uncured: | | | | |
| Appearance | Black | - | ASTM D2090 | 002 |
| Viscosity | 400,000 cP | 400,000 mPas | ASTM D1084, D2196 | 001 |
| Extrusion Rate | 120 g/min | - | ASTM C603 | 033 |
| Cured: 15 min at 200°C (392°F) | | | | |
| Specific Gravity | 1.18 | - | ASTM D792 | 003 |
| Durometer, Type A | 19 | - | ASTM D2240 | 006 |
| Tensile Strength | 825 psi | 5.7 MPa | ASTM D412 | 007 |
| Elongation | 750% | - | ASTM D412 | 007 |
| Tear Strength | 110 ppi | 19.4 kN/m | ASTM D624 | 009 |
| Rheometer (ODR) Maximum Torque | 30 in-lbs | - | ASTM D2084 | 069 |
| Rheometer (ODR) Scorch Time | 2 minutes | - | ASTM D2084 | 069 |
| Dielectric Strength | 400 volts/mil | 15.7 kV/mm | ASTM D149 | - |
| Dielectric Constant | 2.64 | - | - | - |
| Water Absorption, % gain after 168 hour exposure at 85°C (185°F) / 85 % R.H. | 0.11% | - | - | 202 |

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 [contact](#) NuSil® for assistance and recommendations in establishing limits for product specifications.

INSTRUCTIONS FOR USE

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 CF1-135 silicone primer is recommended.

Adjustable Cure Schedule

Product cures at a wide range of cure times and temperatures to accommodate different production needs. Contact NuSil for details.

Use By Date

R-1400 has a use by date of 6 months from the date of manufacture when stored below 0°C in original, unopened containers.

SPECIFICATIONS

Do not use the typical properties shown in this technical profile as a basis for preparing specifications. Please [contact](#) NuSil for assistance and recommendations in establishing limits for product specifications.

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 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

Packaging

6 Ounce Tube (0.168 kg)

Warranty

6 Months

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 [contact](#) 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 [contact](#) 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.

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