

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

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 Technology LLC 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 Technology LLC 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 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 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 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.

Packaging

3 cc Syringe
30 cc Syringe
6 Ounce Tube (177 mL)
1 Gallon (3.64 kg)
5 Gallon (18.2 kg)

Warranty

6 Months

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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