EPM-2411-2

Low volatility silicone glob-top

DESCRIPTION

- One-part, black, platinum catalyzed silicone glob-top
- Thixotropic consistency
- Low modulus

APPLICATION

- For applications requiring low volatility
- To provide protection of electric components and assemblies against shock, vibration, moisture, dust, chemicals and other environmental hazards
- Ensures microchip reliability by providing vital protection
- For applications that require precise delivery configurations

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance*	Black	ASTM D2090	002
Viscosity*	300,000 cP (300,000 mPas)	ASTM D1084, D2196	001
Extrusion Rate* (Performed using 14 gauge, 1.5 inch metal tip and 30 psi)	0.9 g/min	ASTM C603	033
Cured: 15 minutes at 200°C (392°F)			
Specific Gravity*	1.15	ASTM D792	003
Durometer, Type A*	20	ASTM D2240	006
Tensile Strength*	750 psi (5.2 MPa)	ASTM D412	007
Elongation*	700%	ASTM D412	007
Tear Strength*	50 ppi (8.8 kN/m)	ASTM D624	009
Rheometer (ODR) Maximum Torque*	30 in-lbs	ASTM D2084	069
Rheometer (ODR) Scorch Time*	2.5 minutes	ASTM D2084	069
Volume Resistivity	1 x 10^{15} ohm•cm	ASTM D257	153
Dielectric Constant at 100Hz	3.1	ASTM D150-98	

Typical Properties	Average Result	Standard	NT-TM
Dissipation Factor at 100 Hz	0.001	ASTM D150-98	

*Properties tested on a lot-to-lot basis. 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.

INSTRUCTIONS FOR USE

Substrate Considerations

Cures in contact with most materials, exceptions include: sulfur-cured organic rubbers, latex, chlorinated rubbers, some RTV silicones and unreacted residues of some curing agents.

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

Adjustable Cure Schedule

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

Storage

Please store in freezer to maintain warranty.

OPERATING TEMPERATURE

The operating temperature range of a silicone in any application is dependent on many variables, including but not limited to: temperature, time of exposure, type of atmosphere, exposure of the material's surface to the atmosphere, and mechanical stress. In addition, a material's physical properties will vary at both the high and low end of the operating temperature range. This type of silicone typically remains flexible at extremely low temperatures and has been known to perform at –100°C (-148°F) as well as resist breakdown at elevated temperatures up to 300°C (572°F). The user is responsible to verify performance of a material in a specific application.

ROHS AND REACH COMPLIANCE

Please contact NuSil Technology's Regulatory Compliance department with any questions or for further assistance

Packaging	Warranty
3 cc Syringe 30 cc Syringe 3 oz. Tube (89 mL) 6 oz. Tube (177 mL) 32 oz. Tube (946 mL)	6 Months

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.

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.

PATENT / INTELLECTUAL PROPERTY WARNING

NuSil Technology disclaims any expressed or implied warranty against the infringement of any domestic or international patent/intellectual property right. NuSil Technology 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.