GEL-8127

High purity dielectric silicone gel

DESCRIPTION

- Medium to Firm silicone gel
- Low viscosity allows easy mixing and de-airing
- 1:1 Mix Ratio (Part A: Part B)
- Platinum Cure

APPLICATION

- For use as an embedding or potting compound for protection of electronic assemblies and components from environmental contamination
- Provide excellent stress relief for thermal cycling of sensitive components such as wire bonds and thin wafers
- Electrically insulating and non-conductive
- Ideal for potting and filling intricate assemblies
- Ideal for use in automated dispensing equipment

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Translucent and Colorless	ASTM D2090	002
Viscosity, Part A	530 cP (mPas)	ASTM D1084, D2196	001
Viscosity, Part B	530 cP (mPas)	ASTM D1084, D2196	001
Mixed viscosity 90 minutes after catalyzation (V2/V1)	1.0 Max	ASTM D1084, D2196	001
Cured: 35 minutes at 150° C (302° F)			
Penetration (19.5g shaft, 635 mm foot, 5 Seconds)	8 mm	-	011

The above properties are tested on a lot-to-lot basis. Do not use as a basis for preparing specifications. Please contact NuSil Technology for assistance and recommendations in establishing particular specifications.

INSTRUCTIONS FOR USE

Mixing & Vacuum Deaeration

Combine Part A and Part B in a 1:1 mix ratio prior to use. Airless mixing, metering or dispensing equipment is recommended for production operations. If mixing by hand, take care to minimize air entrapment.

Removed air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply vacuum, up to 28 inches Hg, to a container rated for use and of volume at least four times that of material being deaerated. . Hold vacuum until bulk deaeration is complete. For further information please see Mixing and De airing Addition Cure Silicones.

Substrate Considerations

GEL-8127 cures in contact with most materials common to electronic assembles. Exceptions include butyl and chlorinated rubbers, some Tin condensation cure 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. For further information please see Avoiding Cure Inhibition.

Note: Some bonding application may require the use of a primer. NuSil Technology's CF1-135 silicone primer is recommended. For further information please see Choosing a Silicone Primer / Adhesive System for Engineering Applications.

ROHS AND REACH COMPLIANCE

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

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 12 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	Warranty
2 Pint Kit (910 g) 2 Gallon Kit (7.28 kg) 10 Gallon Kit (36.4 kg) 2 Drum Kit (360 kg)	12 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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