

EPM-2461

Low volatility static dissipative silicone elastomer

DESCRIPTION

- Two-part, black, static dissipative silicone
- Offers low modulus
- 1:1 Mix Ratio (Part A: Part B)

APPLICATION

- For applications requiring low volatility
- Use for static dissipation in electronic components
- Use for any application where grooves and other configurations require a non-flowing to limited flow material

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance, Part A	Black	ASTM D2090	002
Appearance, Part B	Translucent	ASTM D2090	002
Appearance, Mixed	Black	ASTM D2090	002
Viscosity, Part A	1,250,000 cP (1,250,000 mPas)	ASTM D2196	149
Viscosity, Part B	100,000 cP (100,000 mPas)	ASTM D1084, D2196	001
Work Time	1 hour	-	008
Cured: 24 hours minimum at ambient temperature and humidity			
Durometer, Type A	30	ASTM D2240	006
Tensile Strength	500 psi (3.4 MPa)	ASTM D412	007
Elongation	350%	ASTM D412	007
Tear Strength	30 ppi (5.3 kN/m)	ASTM D624	009
Volume Resistivity	535 ohm-cm	ASTM D257, D4496	040
Thermal Conductivity*	0.223 W/(mK)	ASTM E1530	101
Volatile Content (1 hour at 275°C)	0.78%	ASTM D2288	004

Typical Properties	Average Result	Standard	NT-TM
Ionic Content, Cl*	< 5 ppm	-	-
Ionic Content, K*	< 1 ppm	-	-
Ionic Content, Na*	< 6 ppm	-	-

*The above properties NOT are tested on a lot-to-lot basis. Please [contact](#) NuSil Technology for assistance and recommendations in establishing particular specifications

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix in a 1:1 (Part A: Part B) ratio just prior to use.

Vacuum Deaeration

Remove air entrapped during mixing by common vacuum deaeration procedure, observing all applicable safety precautions. Slowly apply full vacuum to a suitable container of at least four times the volume of material being de-aired. Hold vacuum until bulk deaeration is complete.

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

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.

Adjustable Cure Schedule

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

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. Silicone typically remains flexible at extremely low temperatures and has been known to perform at -50°C (-58°F) as well as resist breakdown at elevated temperatures up to 250°C (482°F). The user is responsible to verify performance of a material in a specific application.

Packaging

50 mL SxS Kit
500 Gram Kit

Warranty

12 Months

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.

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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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