

EPM-2422

Low volatility silicone elastomer

DESCRIPTION

- Two-part, low viscosity clear silicone
- Designed for enhanced performance in extreme low and high temperatures
- 10:1 Mix Ratio (Part A: Part B)

APPLICATION

- For applications requiring low volatility and high purity
- To provide protection of electric components and assemblies against shock, vibration, moisture, dust, chemicals and other environmental hazards
- Low viscosity for applications requiring superior flow

PROPERTIES

Typical Properties	Average Result	Standard	NT-TM
Uncured:			
Appearance	Transparent	ASTM D2090	002
Viscosity, Part A	3,600 cP (3,600 mPas)	ASTM D1084, D2196	001
Cured: 4 hours at 65°C (149°F)			
Specific Gravity	1.04	ASTM D792	003
Durometer, Type A	40	ASTM D2240	006
Tensile Strength	650 psi (4.5 MPa)	ASTM D412	007
Elongation	100%	ASTM D412	007
Lap Shear Strength (primed w/CF1-135)	200 psi (1.4 MPa)	ASTM D1002	010
Coefficient of Linear Expansion		ASTM E831	-
Below Tg (-150° to -115 °C)	10 ppm/°C (10 μ m/m/°C)	-	-
Above Tg (-95°C to 250°C)	490 ppm/°C (490 μ m/m/°C)	-	-
Volatile Content (1 hour at 275°C)	0.2%	D2288	004
Ionic Content, Cl	< 5 ppm	MIL STD 883E	-
Ionic Content, K	< 1 ppm	MIL STD 883E	-

ADVANCED TECHNOLOGIES

Typical Properties	Average Result	Standard	NT-TM
Ionic Content, Na	< 1 ppm	MIL STD 883E	-

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](#) us or assistance and recommendations in establishing limits for product specifications.

INSTRUCTIONS FOR USE

Mixing

Thoroughly mix Part A and Part B in a 10:1 mix ratio by weight prior to use.

Recommended mixing equipment: <https://synergymixers.com/>

Vacuum Deaeration

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

Packaging

50 Gram Kit (0.051 kg)
500 Gram Kit (0.505 kg)

Warranty

12 Months

ROHS AND REACH COMPLIANCE

Please [contact](#) our Regulatory Compliance department with any questions or for further assistance

SPECIFICATIONS

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

WARRANTY INFORMATION

The warranty period provided by NuSil Technology LLC is 12 months from the date of shipment when stored below 40°C in original unopened containers. Unless NuSil provides a specific written warranty of fitness for a particular use, NuSil's sole warranty is that the product will meet NuSil's then current specification. NuSil 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'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 expressly disclaims any liability for incidental or consequential damages.



DASD™ Vacuum Mixers

The DASD™ *Dual Asymmetric Servo Drive Mixers* is the most advanced mixing technology available today, fully capable of mixing a variety of materials from thick to thin in any combination quickly and repeatably.

Contact our mixing gurus today:
www.synergymixers.com

NO Bubbles NO Blades NO Cleanup

Note: Some bonding applications may require the use of a primer.

Recommended Primer: [CF1-135](#)

For more information on primer application, review:

[Application & Storage Recommendations](#)

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](#) us for details.

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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 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](#) us 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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Mixing Technology

The **DAST™ DualServo Drive Mixers** is the most advanced mixing technology available today, fully capable of mixing a variety of materials from thick to thin in any combination quickly and repeatably.

Contact our mixing gurus today:
www.synergymixers.com



NO
Bubbles



NO
Blades



NO
Cleanup

Dispensing Solutions

With over 25 years of knowledge in dispensing solutions, we are available to assist you with your dispensing and fine-tune your processes. Our catalogue features precision systems that provide consistent fluid applications, leading to enhanced accuracy, increased yields, decreased material expenses, improved process control, and a safer work environment.

Contact us today to discuss your options:
sales@silicone-polymers.co.uk



Silicone Cleaning & Removal

To ensure a safe and clean environment and to prevent contamination that could impact your silicone in the future, we recommend using the following products on the link below:

[PST- Silicone Cleaning and Removal](#)

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