CV-2391
Controlled volatility RTV silicone foam

DESCRIPTION

— Yields a low to medium density silicone rubber foam when rapidly catalyzed
— Low viscosity
— 1:10 Mix Ratio (Part A: Part B)

APPLICATION

— In shock and vibration dampening situations requiring a lightweight, flexible foam
— For intricate back-filling due to a low viscosity
— For applications requiring low outgassing and minimal volatile condensable materials

Meets or exceeds the ASTM E 595 low outgas specifications outlined in NASA SP-R-0022A and European Space Agency PSS-014-702, with a TML of ≤1% and CVCM of ≤0.1%

PROPERTIES

Typical Properties | Average Result | Standard | NT-TM
---|---|---|---
Uncured:
Appearance, Part A | White | ASTM D2090 | 002
Appearance, Part B | Translucent | ASTM D2090 | 002
Viscosity, Part B | 3,000 cP (3,000 mPas) | ASTM D1084, D2196 | 001
Application Life | 6 minutes | - | 027

Cured: 60 minutes at ambient temperature and humidity

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| Foam Density | 14 lbs/ft³ (0.224 g/mL) | ASTM D792, D3574 | 026
| Collected Volatile Condensable Material (CVCM) | <0.1% | ASTM E595 | 072
| Total Mass Loss (TML) | <1% | ASTM E595 | 072

*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

Mixing
Thoroughly mix Part A and Part B, in a 1:10 mix ratio by weight prior to use. Mixing may be accomplished by hand, however best results are achieved using a high speed agitator or a special two-component mixing device to eliminate air entrapment. Mix for 30 seconds. Foaming begins almost immediately and will continue for approximately 3 minutes. Handle the material within 10 minutes after pouring, however allow 24 hours for optimum physical properties. Confining the foam results in a higher specific gravity.

Use a suitable release agent (an aqueous solution of soap and detergent or a commercial mold release) in mold making applications.

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

Work Time
Extend Work Time by storing at a low temperature. Storing at -18°C (0°F) extends Work Time to approximately 15 minutes.

Inhibition Concerns
Cures in contact with most materials. Exceptions include unreacted residues of some curing agents, butyl and chlorinated rubbers, and some RTV silicones containing organotin and/or amines.

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.

ROHS AND REACH COMPLIANCE
Please contact NuSil Technology’s Regulatory Compliance department with any questions or for further assistance.

PACKAGING  WARRANTY

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<th>Packaging</th>
<th>Warranty</th>
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<tr>
<td>1 Pint Kit (457 g)</td>
<td>6 Months</td>
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<td>1 Gallon Kit (3.64 kg)</td>
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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.

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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
estabishing 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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