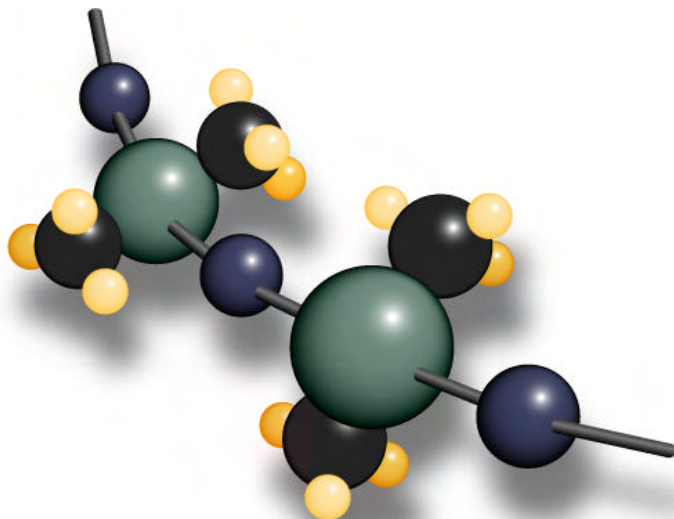


Polymer Systems Technology Limited

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CF3-2350

Flame Retardant, RTV Silicone Foam

Product Profile

Description

- Yields a medium density, flame retardant silicone foam when catalyzed
- Two Parts mix in a convenient 1:1 ratio with a black Part A and white Part B for easy identification and mixing
- Cures to an elastomeric foam
- Increased work time over other foams

Applications

- As a flame resistant seal
- In shock and vibration dampening situations requiring a lightweight, flexible foam with excellent thermal insulation and radiation resistance
- Useful where stability at higher and lower temperatures is required

Typical Properties

	Result		Metric Conv.		ASTM	NT-TM
	Part A	Part B	Part A	Part B		
Uncured:						
Appearance	Black	Tan to off-White	-	-	-	-
Specific Gravity @ 25°C (77°F)	1.15	1.05	-	-	D792	003
Viscosity	84,000 cP	90,000cP	84,000 mPas	90,000 mPas	D1084, D21986	001
Cured: 45 min @ 100°C (212°F)						
Color		Gray		-	-	-
Lap Shear Strength (primed w/ CF1-135)		38 psi		0.26 MPa	D1002	010
Compression Deflection						
@ 20% Compression		8 psi		0.06 MPa	-	-
@ 60% Compression		29 psi		0.2 MPa	-	-
Dielectric Strength		190 volts/mil		7.48 kV/mm	D149	-
Volume Resistivity,		2.2x 10 ¹⁵ ohm/cm		-	D257	040
Density, non-confined		25 lbs/ft ³		0.4 g/cm ³	D792, D3575	026

Instructions for Use

Substrate Considerations

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.

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

Mixing

Thoroughly mix CF3-2350 prior to catalyst addition ensuring uniformity in the cured foam. Mix Part A with Part B for 30-60 seconds, introducing air while mixing. High-speed agitation with a power mixer results in a lower density foam. Quickly pour the mixed material into the application site. Handle material within about 30 minutes after pouring, allow 24 hours for optimum physical properties. Confining the foam results in a higher specific gravity.

Caution: The cure exhibits an exotherm of 20°C (36°F) and the evolution of hydrogen gas. Exercise appropriate caution, keep away from open flame and use only with adequate ventilation.

Packaging

6 oz Tube (120 g)
 2 Pint Kit (780 g)
 2 Gallon Kit (6.2 kg)
 10 Gallon Kit (31.4 kg)

Warranty

6 Months

Warnings About Product Safety

NuSil Technology believes the information and the data contained herein are accurate and reliable. However, 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 Sheets 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 for meeting 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, obtain available product safety information and take the necessary steps to ensure safety of use.

Specifications

Do not use the typical 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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