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UK & Ireland Distributor



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R-2356

Flame Retardant, RTV Silicone Foam

Product Profile

Description

- Yields a high density, flame retardant silicone foam when catalyzed
- Two Parts mix in a convenient 1:1 ratio with a black Part A and off-white Part B for easy identification and mixing
- Expands to 2-3 times its original size and cures to an elastomeric foam

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
- Low viscosity allows for easy mixing and the filling of small areas

Typical Properties	Result		Metric Conv.		ASTM	NT-TM
	Part A	Part B	Part A	Part B		
Uncured:						
Appearance	Black	Off-White	-	-	D2090	002
Specific Gravity @ 25°C (77°F)	1.10	1.10	-	-	D792	003
Viscosity	4,100 cP	5,300 cP	4,100 mPas	5,300 mPas	D1084, D21986	001
Cured: 15 min @ ambient temperature and humidity						
Specific Gravity @ 25°C (77°F)		0.35		-	D792	003
Color		Gray		-	-	-
Dielectric Strength		190 volts/mil		7.48 kV/mm	D149	-
Volume Resistivity		2.2x 10 ¹⁵ ohm-cm		-	D257	040
Density, non-confined		28 lbs/ft ³		0.450 g/cm ³	D792, D3574	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 R-2356 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 10 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

2 Pint Kit (780 g)
 2 Gallon Kit (6.2 kg)

Warranty

6 Months

Warnings About Product Safety

NuSil Technology believes that the information and 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.

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