

NEVSi™ FR570

Flame Retardant Silicone Rubber Compound

NEVSi FR570 is a heat cured silicone rubber compound with a dark grey color, it has been formulated for excellent flame retardant performance equivalent to UL94 V-0 (1mm thickness) and balanced physical properties.

For in the New Energy Vehicle market segment and other automotive applications where high temperature and high voltage environments are present. **NEVSi FR570** possesses flame-retardant properties and maintains high heat resistance, insulation and self-extinguishing properties, which can reduce the risk of ignition and suppress the generation of harmful gas.

KEY FEATURES

- Good mechanical properties
- Equivalent to UL94 V-0 (1mm thickness) flame retardant performance
- Excellent heat resistance
- Low compression set
- Excellent processability

APPLICATIONS

- UL94 V-0 specified flame retardant parts/applications
- High temperature rubber parts
- O-rings, gaskets and seals
- Connectors
- Heat resistant molded components

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PROPERTY DATA

Testing Items	Unit	Standard	Typical Data
Compound Color			Dark Grey
Polymer Classification			VMQ
Physical Strength <i>(0.80 pphr of 45% 2,5-Dimethyl-2,5-di(tertbutylperoxy)hexane masterbatch; Press cure 10 minutes @ 170°C; Post Bake 4 hours @ 200°C)</i>			
Specific Gravity	g/cm ³	ASTM D 297	1.39
		DIN 53 479 A	1.39
Shore A Hardness	Durometer	ASTM D 2240	70
		DIN 53 505	70
Tensile Strength	MPa	ASTM D 412	6.5
		DIN 53 504 S2	6.7
Elongation @ Break	%	ASTM D 412	380
		DIN 53 504 S2	400
Tear Strength	N/mm	ASTM D 624-B	22
Compression Set*	%	ASTM D 395	15
		DIN ISO 815	15
Heat Resistance Performance <i>(Heat aging 70hrs @ 200°C, after post cure)</i>			
Shore A Hardness	Durometer	ASTM D 573	73
Tensile Strength	MPa		6.3
Elongation @ Break	%		240
Tear Strength	N/mm		15
Flame Retardant Performance			
Flame Retardant Performance		UL94 V-0	PASS

* 22 hours @ 175°C

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Typical property data values should not be used as specifications. Assistance and specifications are available by contacting Momentive Performance Materials Commercial Office.

HANDLING AND SAFETY

- Wear eye protection and protective gloves when handling this product.
- Cure only where appropriate ventilation systems exist.

STORAGE

- Store in a cool and dry place out of direct sunlight.
- Keep out of the reach of children.

PACKAGE

20kg carton

NEVSIL FR570
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FOR INDUSTRIAL USE ONLY

It is the responsibility of the user to determine the suitability of any Momentive Silicones product for any intended application. NEVER USE ANY Momentive SILICONES PRODUCT FOR IMPLANTATION OR INJECTION INTO THE HUMAN BODY. Specifications are available by contacting Momentive Performance Materials. Typical property data values should not be used as specifications. In as much as Momentive Performance Materials, Inc. has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the suitability of the material for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Momentive Performance Materials patent covering use or as recommendations for use of such materials in the infringement of any patent. Material Safety Data Sheets are available upon request from Momentive Performance Materials. The contents of this catalog are subject to change without notice. No part of this data may be reproduced without the prior approval of Momentive Performance Materials.
