

FSE 7540

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Description

FSE 7540 is a fluorosilicone rubber, designed for calendering, moulding and extrusion for a variety of solvent resistant applications. These products may be used with different peroxides and fillers to develop wide-ranging property profiles. This general purpose material is successfully used in a variety of automotive and aerospace applications, where a combination of excellent fluid-resistance with good overall mechanical properties, low-temperature performance and low compression set is required.

Key Features and Benefits

- Excellent Handling
- Blendable
- Easy pigmentable
- Broad fluid resistance
- Low compression set
- Low temperature flexibility
- Suitable for high temperature applications
- Constant physical properties over wide temperature range

Typical Physical Properties

Typical Properties of the Uncured Base Compound:			
Appearance			White
Density	DIN 53 479 A	g/cm ³	1.39

Typical Properties of the Vulcanized Rubber:

100 phr FSE 7540 with 1,5 phr 2,5 Dimethyl-2,5 Di(t-butyl peroxy)Hexane(50%)

Vulcanization conditions: 15 min. @ 177°C post cured: 4h @ 204°C in hot air

Hardness	DIN 53 505*	Shore A	40
Tensile strength	DIN 53 504 S2*	N/mm ²	8.3
Elongation at break	DIN 53 504 S2*	%	380
Tear strength	ASTM D 624 die B	N/mm	18
"Compression set (22 h @ 177°C)"	DIN 53 517*	%	8
Rebound resilience	DIN 53 512*	%	23

* The quoted test methods are corresponding to ASTM standards.

Processing Recommendations

Various organic peroxides will vulcanize **FSE 7540** fluorosilicone compounds.

Fabricators should make their selection of curing agents on the basis of method of fabrication, desired properties, and safety considerations. They are mixed into the rubber, if necessary together with **Silopren® HV Additives**. The optimum cure cycle will depend on the method of processing used and the physical dimensions of the vulcanized product. Specific applications will require the use of air oven post cures.

Packaging

FSE 7540 is available in 22,7 kg and 454 kg boxes.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated

specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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