Haiflon® FKM Precompound SF-B15FL

Fluorine rubber (FKM) precompound — vinylidene fluoride based fluoroelastomer with incorporated cure system

Haiflon fuel-hose FKM precompounds are designed for extrusion of automotive fuel line and low-permeation fuel hoses, with bimodal molecular weight distribution and special end-group technology for excellent extrusion performance and fuel resistance.

Product Features

- **Bimodal, special end-group technology**
- **Excellent extrusion and fuel resistance**
- **Designed for THV bonding constructions**

Basic Characteristics

Item	Typical value
Fluorine content, %	69.0
Specific gravity, g/cm³	1.83
Physical form / color	Slab, off-white
Solubility	Ketones and esters
Mooney viscosity, ML 1+10 (121 °C)	15

Fuel-hose test compound (phr)

Ingredient	phr
Precompound	100
FEF Black (N550)	12
MgO	3
DBPH	3

Press cure: 180 °C × 5 min; Post cure: 250 °C × 4 h.

Typical Properties of Vulcanizate

Property	Typical value	Test method
Tensile strength, MPa	10.3	ASTM D412
Elongation at break, %	290	ASTM D412
Compression set, % (200 °C × 70 h)	23	ASTM D395, Method B
TR10 (low-temperature retraction), °C	-12	ASTM D1329

Applications

- **Low-permeation fuel line hoses bonded with THV**

Recommended Process Method

Compression *** (* suitable, ** very suitable, *** strongly recommended)

Processing Guidelines

Haiflon FKM precompounds can be compounded with internal mixers or two-roll mills together with standard fillers and other ingredients used in typical fluoroelastomer formulations. All dry ingredients should be blended before being added to the rubbery solid. During compounding, full cooling should be maintained, and after mixing the compound should be cooled as quickly as possible. Vulcanizates are press-cured and then post-cured (oven) as listed under Test Compound & Cure Conditions to develop final properties.

Safety Precautions

- **Store and handle in a well ventilated place; smoking is strictly forbidden in working areas.**
- **Avoid eye contact; wash thoroughly any contacted skin and clothing after handling.**
- **Further safety and handling information can be found in the product's Safety Data Sheet (SDS).**

Storage & Handling

- **Store in clean, cool, dry conditions, away from direct sunlight and heat sources; keep the package sealed.**
- **Use on a first-in-first-out basis.**

Packing

Packed in PE film, in cardboard carton; net weight 20 kg per carton. · Custom packing is available on request.

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