Haiflon® FKM Compound HFK-7001C

Ready-to-mold fluorine rubber (FKM) compound · bisphenol-cured · 20 kg net per carton

Haiflon bisphenol-cured FKM compounds for O-rings and gaskets are based on VDF/HFP copolymer, available from very low to high hardness (48 – 90 Shore A) in black, brown, green and gray. They offer good mold release, low compression set and excellent oil and fuel resistance.

Product Features

- **Good mold release**
- **For various O-rings and gaskets**

Basic Characteristics

Item	Typical value
Polymer type	Copolymer (VDF/HFP)
Cure system	Bisphenol-cured
Color	Brown

Typical Properties of Vulcanizate

Property	Typical value	Test method
Hardness, Shore A	70	ASTM D2240
Tensile strength, MPa	15.1	ASTM D412
Elongation at break, %	230	ASTM D412
Density, g/cm^3	1.93	ASTM D297
Compression set (200 °C × 70 h), %	17	ASTM D395, Method B
TR10, °C	-17	ASTM D1329
Brittleness temperature, °C	-25	ASTM D2137

Heat Aging Resistance

Air aging 250 °C × 70 h — change of properties:

Property change	Hardness, pts	Tensile, %	Elongation, %	
Value	1	-2.1	-3.2	

Fluid Resistance

Fluid (test condition)	ΔHardness, pts	ΔTensile, %	ΔElongation, %	ΔVolume, %
903 oil (150 °C × 70 h)	-2	-4.7	6.8	2.6
Fuel C (23 °C × 70 h)	-3	-18.7	3.9	3.0

Applications

- **O-rings and gaskets for automotive, aerospace, petroleum and chemical industries**

Processing Guidelines

Haiflon FKM compounds are fully pre-mixed and ready for molding — no additional compounding is required. Mold by compression, transfer or injection molding; typical press cure is about 10 min at 170 – 180 °C, followed by a post cure (oven) of 4 – 24 h at 200 – 230 °C, depending on part thickness and performance requirements.

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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