Haiflon® FKM Compound HFK-7101P

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

Haiflon bisphenol-cured FKM terpolymer compounds for O-rings and gaskets provide higher temperature and oil resistance than copolymer grades, with good mold release, in black and brown from 55 to 80 Shore A.

Product Features

- **Peroxide-cured FKM**
- **Low temperature performance**
- **Good gearbox oil resistance**

Basic Characteristics

Item	Typical value
Polymer type	Terpolymer (VDF/HFP/TFE)
Cure system	Peroxide-cured
Color	Brown

Typical Properties of Vulcanizate

Property	Typical value	Test method
Hardness, Shore A	70	ASTM D2240
Tensile strength, MPa	16.9	ASTM D412
Elongation at break, %	240	ASTM D412
Density, g/cm³	1.93	ASTM D297
Compression set (200 °C × 70 h), %	29	ASTM D395, Method B
TR10, °C	-21	ASTM D1329
Brittleness temperature, °C	-30	ASTM D2137

Heat Aging Resistance

Air aging 275 °C × 70 h — change of properties:

Property change	Hardness, pts	Tensile, %	Elongation, %	
Value	2	-3.9	9.6	

Fluid Resistance

Fluid (test condition)	ΔHardness, pts	ΔTensile, %	ΔElongation, %	ΔVolume, %
903 oil (150 °C × 70 h)	-2	-5.8	-18.7	2.3

Applications

- **O-rings and gaskets for high-temperature and aggressive-oil service**

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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