# Haiflon® FKM Compound HFK-7561C

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 | Black |

## Typical Properties of Vulcanizate

| Property | Typical value | Test method |
|---|---|---|
| Hardness, Shore A | 75 | ASTM D2240 |
| Tensile strength, MPa | 15.3 | ASTM D412 |
| Elongation at break, % | 200 | ASTM D412 |
| Density, g/cm$^3$ | 1.86 | ASTM D297 |
| Compression set (200 °C × 70 h), % | 19 | ASTM D395, Method B |
| TR10, °C | -17 | ASTM D1329 |
| Brittleness temperature, °C | -20 | ASTM D2137 |

## Heat Aging Resistance

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

| Property change | Hardness, pts | Tensile, % | Elongation, % | |
|---|---|---|---|---|
| Value | 1 | 1.2 | -3.7 | |

## Fluid Resistance

| Fluid (test condition) | ΔHardness, pts | ΔTensile, % | ΔElongation, % | ΔVolume, % |
|---|---|---|---|---|
| 903 oil (150 °C × 70 h) | -2 | -6.1 | 8.6 | 2.5 |

## 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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