

Genuine Viton® 80-compound 514680 - Technical Data Sheet

1. Introduction

Original Viton® 514680-compound is based on a 100% Genuine Viton® polymer. Products out of this compound are being made according to strict guidelines of DuPont Dow Elastomers. This guarantees a constant high quality level. All products carry the specific, easy recognizable emblem on their package. In conformity with FDA 177.2600.

2. Product Description

Chemical Composition :	Dipolymer of Hexa-Fluoropropylene and Vinylidene Fluoride, plus cure chemicals
Physical form :	O-Rings / Mouldings
Colour :	Black
Odour :	None
Solubility :	Low molecular weight Esters and Ketones
Storage stability * :	Excellent

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	80° ± 5° IRHD
Tensile Strength at break	ISO 37	min 14,7 MPa
Elongation at break	ISO 37	min 146%
Specific Weight	ISO 2781	1,83
Compression Set	ISO 815	
25% compression - 24h/200°C on slab	ISO 815	max 15%
Heat Ageing 7 days/150°C	ISO 188	
Hardness Change		max -2°
Volume Change		max +3%

4. Temperature Resistance

- -20° to +200°C
- TR10 (low temp. resistance): -16°C

5. Chemical Resistance

Concentrated acids	: excellent
Acetone	: bad
Hydroxides	: excellent
Benzene	: excellent
Crude oil	: excellent
Toluene	: excellent
Fuel C	: excellent
Gasoline	: very good
BTM oil 3	: excellent
Methylene chloride	: very good
MEK	: bad
MTBE	: bad
Water < 100°C	: very good
Steam > 120°C	: bad

6. Advantages

- Very low compression-set
- Compression-moulded, produced in small quantities
- Migration tested in compliance with FDA 177.2600 class 1 (certificate on request)

7. Safety and Handling

Read and be guided by the recommendations in the DuPont Dow Elastomers technical bulletin H-71129-02, 'Handling Precautions for Viton® and Related Chemicals'.

8. Other Information

- Produced with high purity furnace black N772
- Contains less than 10% high purity furnace black (class 1)
- This compound is ADI (Animal Derived Ingredient Free).

