# Genuine Viton® 70-compound 514642 green - Technical Data Sheet

## 1. Introduction

Original Viton® 514642-compound is a copolymer of Hexa-Fluorpropylene and Vinylidene Fluoride with ca. 66% Fluorine. Products out of this compound are being made according to strict guidelines of DuPont Dow Elasomers. 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 | : | Copolymer of Hexa-Fluoropropylene and Vinylidene Fluoride, plus 66% Fluorine |
| Physical form | : | O-Rings / Mouldings |
| Colour | : | Green |
| Odour | : | None |
| Storage stability * | : | Excellent |

* : Following ISO 2230 conditions

## 3. Physical Properties

| *Test Method* | *Norm* | *Test Values* |
|---|---|---|
| Hardness | ISO 868 | 70° ± 5° IRHD |
| Tensile Strength at break | ISO 37 | 12 MPa |
| Elongation at break | ISO 37 | 200% |
| Specific Weight | ISO 2781 | 2,29 |
| Compression Set<br>25% compression, 22h/200°C, on slab | ISO 815 | 30% |
| Heat Ageing 168h/250°C | ASTM D 573 | |
| Hardness Change | | +7° |
| Tensile Strength Change | | -25% |
| Elongation Change | | -23% |
| Brittleness at | ASTM D 2137 A | -25°C |

## 4. Temperature Resistance

- -20° to +200°C
- TR10 (low temp. resistance): -17°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 |

## 6. Advantages

- For Chlorinated solvents, synthetic lubricants, diesel fuel, petroleum oils, most hydrocarbons.

## 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

- FDA compliant to CFR 21 177.2600.
- This compound is ADI (Animal Derived Ingredient Free).

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.

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