# Viton® 80-compound 514682 white - Technical Data Sheet

## 1. Introduction

Original Viton® 514682-compound is based on a 100% Genuine Viton® polymer. Products out of this compound are being made according to strict guidelines of DuPont Performance 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 | : | Dipolymer of Hexa-Fluoropropylene and Vinylidene Fluoride, plus cure chemicals with 66% Fluorine |
| Physical form | : | O-Rings / Mouldings |
| Colour | : | white |
| Odour | :: | None |
| Storage stability * | : | Excellent |

* : Following ISO 2230 conditions

## 3. Physical Properties

| *Test Method* | *Unit* | *Norm ISO* | *Test Values* |
|---|---|---|---|
| Density | | ISO 2781 | 2,41 |
| Hardness Shore A | Point | ISO 7619 | 80 |
| Tensile Strength | Mpa | ISO 37 | 12,8 |
| Ultimate Elongation | % | ISO 37 | 192 |
| Compression Set 24h/175°C | % | ISO 815 | 7,1 |
| Heat Ageing 70h/200°C | | ISO 188 | |
| Hardness | Point | ISO 7619 | 82 |
| Tensile Strength | Mpa | ISO 37 | 15,5 |
| Ultimate Elongation | % | ISO 37 | 175 |
| Oil ASTM 3, 70h/150°C | | ISO 1817 | |
| Hardness | Point | ISO 7619 | 80 |
| Tensile Strength | Mpa | ISO 37 | 11,9 |
| Ultimate Elongation | % | ISO 37 | 241 |
| Volume | % | | 0,9 |

## 4. Temperature Resistance

- -15° 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 |

## 6. Advantages

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



20.04.2009