

Viton® 60-compound 514660 black - Technical Data Sheet

1. Introduction

Original Viton® 514660-compound is based on a 100% Genuine Viton® polymer. Products out of this compound are being made according to strict guidelines of DuPont Performance 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 with 66% Fluorine

| | |
|---------------------|-----------------------|
| Physical form | : O-Rings / Mouldings |
| Colour | : Black |
| Odour | : None |
| Storage stability * | : Excellent |

* : Following ISO 2230 conditions

3. Physical Properties

| Test Method | Unit | Norm ISO | Test Values |
|----------------------------|--------------------|----------|-------------|
| Density | kg/m ⁻³ | ISO 2781 | 2020 |
| Hardness Shore A | Point | ISO 7619 | 60 |
| Tensile Strength | Mpa | ISO 37 | 11,5 |
| Ultimate Elongation | % | ISO 37 | 256 |
| Modulus 100% | Mpa | ISO 37 | 3,5 |
| Compression Set 22h/175°C | % | ISO 815 | 4,8 |
| Heat Ageing 70h/200°C | | ISO 188 | |
| Hardness Change | Point | ISO 7619 | +1 |
| Tensile Strength Change | % | ISO 37 | +8,7 |
| Ultimate Elongation Change | % | ISO 37 | +6,6 |
| Oil ASTM 3, 70h/150°C | | ISO 1817 | |
| Hardness | Point | ISO 7619 | -1 |
| Tensile Strength | % | ISO 37 | -1,7 |
| Ultimate Elongation | % | ISO 37 | +9,8 |
| Volume Change | % | | +1,9 |

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)

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).

