

Genuine Viton® A 75-compound 514172 Vulc-O-Ring - Technical Data Sheet

1. Introduction

Original Viton® 514172-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. This compound is 3A compliant.



2. Product Description

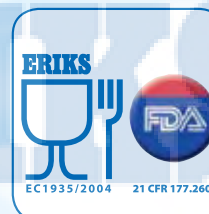
Chemical Composition :	Copolymer of Hexa-Fluoropropylene and Vinylidene Fluoride, plus cure chemicals
Physical form :	O-Rings / Mouldings / Extrusions / Vulc-O-Rings
Colour :	Black
Odour :	None
Storage stability * :	Excellent

* : Following ISO 2230 conditions



3. Physical Properties

Test Method	Norm	Test Values
Hardness	ASTM D 3340	75 ± 5 IRHD
Tensile Strength at break	ASTM 37	13,5 MPa
Elongation at break	ISO 37	302%
Specific Weight	ISO 2781	2,32
Compression Set 22h/200°C, on slab	ISO 815	7,7%
Heat Ageing 70h/250°C	ISO 188	
Hardness Change		+5 IRHD
Tensile Strength Change		+2 MPa
Elongation Change		- 35%
Weight loss		0,24 gr
Fluid Immersion Oil No 3 70h/150°C	ASTM D 471	
Volume Change		+5,86%
Hardness Change		-0,5 IRHD
Elongation Change		-58,7%
Tensile Strength Change		-5,5 MPa



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
ASTM oil 3	: excellent
Methylene chloride	: very good
MEK	: bad
MTBE	: bad
Water < 100°C	: good

6. Other Information on Vulc-O-Rings

- Tolerances standard on cross section to ISO 3302 M1.
- Tolerances on O-Ring inside diameter according ISO 3302 up to diam. 160 mm.
Bigger diameters tolerances ±0,5%.
- Smooth surface.
- Can be produced to ±0,05 mm tolerance in cross section.

7. Other Information

- This genuine Viton® 514172-compound is formulated to FDA compliance CFR Section 177.2600 for aqueous and fatty foods. This means carbon black compound is below 10% class 1. This compound is migration tested in compliance with FDA norms by independent labs and certificate is available on request.
- This compound is ADI (Animal Derived Ingredient Free).