Genuine Viton® A 90-compound 514309 Vulc-O-Ring - Technical Data Sheet

1. Introduction

Original Viton® A 514309-compound is based on a copolymer with 66% Fluorine content. Cure system is Bisphenol.

2. Product Description

Chemical Composition	:	Copolymer with 66% Fluorine, Bisphenol cured
Physical form	:	Extrusions / O-Rings / Mouldings / Vulc-O-Rings
Colour	:	Black
Odour	:	None
Storage stability *	:	Excellent

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 868	90 ± 5 IRHD
Tensile Strength at break	ISO 37	15,8 MPa
Elongation at break	ISO 37	193%
Specific Weight		1,82
Compression Set, 22h/175°C, on slab	ISO 815	5,7%
Compression Set, 22h/200°C, on slab		9,5%
Heat Ageing 70h/250°C	ISO 188	
Hardness Change		+1°
Tensile Strenght Change		+0,4 MPa
Elongation Change		- 21%
Weight loss		0,11 gr
Immersion in Oil n°3, 70h/150°C	ISO 1817	
Volume Change		+6,11%
Hardness Change		+4,16°
Elongation Change		-20%
Tensile Strength Change		+3,2 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
BTM oil 3	:	excellent
Methylene chloride	:	very good
MEK	:	bad
MTBE	:	bad
Water < 100°C	:	very good

6. Other Information on Vulc-O-Rings

- Tolerances standard on cross section to ISO 3302.
- 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.