

Genuine Viton® 75-compound 51414 black - Technical Data Sheet

1. Introduction

Original Viton® 51414-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. ERIKS standard original Viton® compound for O-Rings.



2. Product Description

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

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	75 ± 5 IRHD
Tensile Strength at break	ISO 37	15,5 MPa
Elongation at break	ISO 37	201 %
Specific Weight	ISO 2781	1,84
Modulus at 100%	ASTM D412-98a	6,2 MPa
Heat Ageing 70h/250°C	ASTM D573-04	
Hardness Change		+3 pts
Tensile Strength Change		-4%
Elongation Change		+2%
Weight Change		-2,5%
ATSM No 101 oil 70h/200°C	ASTM D471-98	
Hardness Change		-8 pts
Tensile Strength Change		-18%
Elongation Change		+3%
Weight Change		+11,8%
Compression Set 70h/200°C	ASTM D 395-B	17%
Compression Set 24h/200°C on slab		max 15%
on O-Ring (3,53 mm)		max 18%

4. Temperature Resistance

- -20° to +200°C
- TR10 (low temp. resistance): -16°C

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

5. Chemical Resistance

Concentrated acids	: excellent
Acetone	: bad
Hydroxides	: excellent
Benzene	: excellent
Crude oil	: excellent
Toluene	: excellent
Fuel C	: excellent

6. Advantages

- Very good compression-set
- Stock item for ca 6000 dimensions
- Labeled with Viton® stickers