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 Elasomers. 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

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	:	good

6. Advantages

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