Genuine Viton® 75-compound 51414 - 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 Dow 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
Solubility	:	Low molecular weight esters and ketones
*Storage stability **	:	Excellent

** : Following DIN 7716 conditions*

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	DIN 53519	75° ± 5° IRHD
Tensile Strength at break	DIN 53504	min 13 MPa
Elongation at break	DIN 53504	min 170%
Specific Weight	ASTM D 1817	1,85
Compression Set	DIN 53517	
25% compression - 24h/200°C	ASTM 395 B	
on slab		max 12%
on O-Ring (3,53 mm)		max 18%
Heat Ageing 70h/200°C	DIN 53508	
Hardness Change		max +4°

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

7. Safety and Handling

Read and be guided by the recommendations in the DuPont Dow Elastomers technical bulletin H-71129-02, 'Handling Precautions for Viton® and Related Chemicals'.

8. Other Information

- Can be formulated to meet FDA 177.2600 compliance, or: Mil-R-83248B and AMS7276D

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