

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

1. Introduction

Original Viton® 51414 green-compound is based on a 100% Genuine Viton® polymer. Products out of this compound are being made according to strict guidelines of DuPont Dow Elastomers. This guarantees a constant high quality level. All products carry the specific, easy recognizable emblem on their package.



2. Product Description

<i>Chemical Composition</i>	: Copolymer of Hexa-Fluoropropylene and Vinylidene Fluoride, plus cure chemicals
<i>Physical form</i>	: O-Rings / Mouldings
<i>Colour</i>	: Green - RAL 6011
<i>Odour</i>	: None
<i>Solubility</i>	: Low molecular weight Esters and Ketones
<i>Storage stability *</i>	: Excellent

* : Following DIN 7716 conditions

3. Physical Properties

<i>Test Method</i>	<i>Norm</i>	<i>Test Values</i>
Hardness	DIN 53519	75° ± 5° IRHD
Tensile Strength at break	DIN 53504	min 12 MPa
Elongation at break	DIN 53504	min 170%
Specific Weight	ASTM D 1817	2,07
Compression Set	DIN 53517	
25% compression - 24h/200°C on slab	ASTM 395 B	max 14%
on O-Ring (3,53 mm)		max 19%
Heat Ageing 70h/200°C	ASTM 395 B	
Hardness Change		max +5°

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 2000 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, Mil-R-83248B and AMS7276D
- Green colour RAL 6011

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.