

Viton® 60-compound WV 1003 black - Technical Data Sheet



1. Introduction

Original Viton® WV 1003-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. In conformity with FDA 177.2600.

2. Product Description

Chemical Composition : Dipolymer of Hexa-Fluoropropylene and Vinylidene Fluoride, plus cure chemicals with 66% Fluorine

Physical form : O-Rings / Mouldings

Colour : Black

Odour : None

Storage stability * : Excellent

3. Physical Properties

Test Method	Unit	Norm ISO	Test Values
Density	kg/m-3	ISO 2781	2020
Hardness Shore A	Point	ISO 7619	60
Tensile Strength	Mpa	ISO 37	11,5
Ultimate Elongation	%	ISO 37	256
Modulus 100% Compression Set	Mpa	ISO 37	3,5
22h/175 °C	%	ISO 815	4,8
Heat Ageing		ISO 188	
70h/200 °C			
Hardness Change	Point	ISO 7619	1
Tensile Strength Change	%	ISO 37	+8,7
Ultimate Elongation Change	%	ISO 37	+6,6
Oil ASTM 3, 70h/150 °C		ISO 1817	
Hardness Point		ISO 7619	-1
Tensile Strength	%	ISO 37	-1,7
Ultimate Elongation	%	ISO 37	+9,8
Volume Change	%		+1,9



4. 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

5. Temperature Resistance

- -15° to +200°C
- TR10 (low temp. resistance): -16°C

6. Advantages

- Very good compression-set
- Compression-moulded, produced in small quantities
- Migration tested in compliance with FDA 177.2600 class 1 (certificate on request)

Water < 100°C : very good

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