

## EPDM 75-compound 559187 Vulc-O-Ring - Technical Data Sheet

### 1. Introduction

EPDM 75-compound 559187 is a Peroxide cured polymer of Ethylene, Propylene and a small amount of Diene. This compound is in conformity with FDA CFR 21 177.2600 and 3-A 18-03 compliant class I (except for milk fat test).

### 2. Product Description

Chemical Composition :	Peroxide cured Terpolymer of Ethylene, Propylene and Diene - Peroxide cured
Physical form :	O-Rings / Mouldings / Extrusions / Vulc-O-Rings
Colour :	Black
Storage stability * :	± 10 years

\* : Following ISO 2230 conditions

### 3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 868	75° ± 5° IRHD
Tensile Strength at break	ISO 37	11,8 MPa
Elongation at break	ISO 37	418%
Specific Weight	ISO 2781	1,31
Compression Set 22h/100°C, on slab	ISO 815	13,9%
Heat Ageing, 70h/125°C	ASTM D 573	
Hardness Change		+1,3°
Tensile Strength Change		+1,5 MPa
Elongation Change		-27%
Weight Change		-0,07 gr
Immersion in ASTM oil n°1, 70h/150°C	ISO 1817	
Hardness Change		-47°
Volume Change		+137%
Tensile Strength Change		-5,8 MPa
Elongation Change		-49%

### 4. Temperature Resistance

- -40° to +140°C

### 5. Chemical Resistance

Air	: excellent
Alcohol	: excellent
Alkali	: excellent
Fats	: unsatisfactory
Hydrocarbons	: unsatisfactory
Ethers	: excellent
Esters	: unsatisfactory
Acids	: fair
Oils	: unsatisfactory
Water	: excellent
Steam	: good
	up to 150°C
Ozone	: very good

### 6. Advantages

- Low compression set
- Good resistance to hot water, steam and acids
- Certificates on demand
- This compound is ADI (Animal Derived Ingredient Free).

### 7. Other Information on Vulc-O-Rings

- Tolerances standard on cross section to ISO 3302.
- Tolerances on O-Ring inside diameter according ISO 3302 up to diam. 160 mm. Bigger diameters tolerances ±0,5%.
- Smooth surface.
- Can be produced to ±0,05 mm tolerance in cross section.



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.