# FRIKS

# 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	7	

\* : 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	ISO 815	
22h/100°C, on slab		13,9%
Heat Ageing, 70h/125°C	ISO 188	
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%
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# 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

- Good compression set
- Good resistance to hot water, steam and acids
- Certificates on demand

#### 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.