

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	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%

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.

