

EPDM 70-compound 559312 Vulc-O-Ring - Technical Data Sheet

1. Introduction

EPDM 75-compound 559312 is a peroxide cured polymer of Ethylene, Propylene and a small amount of Diene.
Approved to USP class VI, USP biological reactivity, test in vivo, extraction at 121°C.

2. Product Description

Chemical Composition :	Peroxide cured Terpolymer of Ethylene, Propylene and Diene
Physical form :	Vulc-O-Rings, core for Teflex® O-rings
Colour :	Black
Storage stability* :	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 868	70 ± 5 IRHD
Tensile Strength at break	ISO 37	13 MPa
Elongation at break	ISO 37	299%
Specific Weight	ISO 2781	1,14
Compression Set 24h/70°C, on slab	ISO 815	9,4%
Heat Ageing, 70h/125°C	ISO 188	
Hardness Change		+4°
Tensile Strength Change		+0,6 MPa
Elongation Change		+24%
Weight Change		-1,7 gr

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
Ozone	: very good

6. Advantages

- Ozone resistant, good resistance to hydroxides, solvents, alcohols, water, steam, ketones, a lot of acids.
- Suitable for HFC or HFD flame retardant hydraulic oils and brake fluids.

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.

