

HNBR 75-compound 886301 Vulc-O-Ring - Technical Data Sheet

1. Introduction

HNBR 75-compound 886301 is made of a specially formulated HNBR with good compression set. Peroxide cured.

2. Product Description

Chemical Composition	: Acrylonitrile / Butadiene Rubber - ACN% is 34%
	: 99,5% hydrogenated
Physical form	: O-Ring / Vulc-O-Ring / Mouldings / Extrusions
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	18,1 MPa
Elongation at break	ISO 37	360%
Specific Weight	ISO 2781	1,24
Compression Set	ISO 815	
22h/150°C, on slab		21%
Heat Ageing 70h/150°C	ISO 188	
Hardness Change		+6°
Tensile Strength Change		-1,4 MPa
Elongation Change		-4%
Immersion in ASTM oil n°3, 70h/150°C	ISO 1817	
Hardness Change		-7°
Tensile Strength Change		+1 MPa
Elongation Change		-23%

4. Temperature Resistance

- -30° to +150°C
- TR10 (low temp): -20°C
- Short time up to 180°C

5. Chemical Resistance

Alkali	: very good
Air	: excellent
Alcohol	: very good
Fats	: excellent
Mineral oils	: excellent
Silicone oils	: excellent
Vegetable oils	: excellent
Inorganic acids	: excellent
Ketones	: unsatisfactory
Ethers	: unsatisfactory
Organic acids	: fair
Ozone	: excellent

6. Advantages

- For use with oils and bio oils at higher temperatures than NBR.
- Can be produced in small quantities.

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.