

XNBR 75-compound 886390 Vulc-O-Ring - Technical Data Sheet

1. Introduction

XNBR 75-compound 886390 is made of XNBR (Carboxylated Nitrile Rubber).
Cure system is sulphur.

2. Product Description

Chemical Composition :	Carboxylated Nitrile Rubber - 27% ACN - Blend of Butadiene/Acrylonitrile and Methacrylic acid.
Physical form :	Mouldings / Vulc-O-Rings
Colour :	Black
Storage stability * :	± 10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Specific Weight	ISO 2781	1,21
Hardness	ISO 868	75 ± 5 IRHD
Tensile Strength at break	ISO 37	15,6 MPa
Elongation at break	ISO 37	349%
Specific Weight	ISO 2781	1,21
Compression Set 22h/100°C, on slab	ISO 815	29%
Heat Ageing 70h/150°C	ISO 188	
Hardness Change		+7°
Tensile Strength Change		+2 MPa
Elongation Change		-19,8%
Weight Change		-0,11 gr
Immersion in ASTM oil n°3, 70h/150°C	ISO 1817	
Volume Change		-0,54%
Hardness Change		+1,5
Tensile Change		+3 MPa
Elongation Change		-23%

4. Temperature Resistance

- -23° to +100°C

5. 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.

6. Advantages

- Excellent resistance to aliphatic hydrocarbons (e.g. propane, butane and petroleum), mineral oils/greases, vegetable/animal oils/greases, heating oil and diesel fuel.
- Good for steam up to 130°C

7. Other Information

- The blend (Terpolymer) is based on butadiene, acrylonitrile and (meth)acrylic acid, and results in superior abrasion resistance when subject to dynamic stress.