NBR 75-compound 366302 Vulc-O-Ring - Technical Data Sheet

1. Introduction

NBR 75-compound 366302 is made of NBR (Acrylonitrile - Butadiene - Rubber) with medium percentage of ACN. Cure system is Peroxide. In conformity with FDA 177.2600 and 3A, class II.

2. Product Description

Chemical Composition	:	Acrylonitrile / Butadiene Rubber
Physical form	:	Mouldings / Vulc-O-Rings / Extrusions
Colour	:	Black
Storage stability *	:	7 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 868	75 ± 5 IRHD
Specific Weight	ISO 2781	1,37
Tensile Strength at break	ISO 37	11,7 MPa
Elongation at break	ISO 37	379%
Compression Set 22h/100°C, on slab	ISO 815	 19,5%
Heat Ageing, 70h/100°C Hardness Change Tensile Strength Change Elongation Change Weight Change	ISO 188	 +3,3° -0,7 MPa -16% 0,02 gr
Immersion in ASTM oil n°3, 7h/100°C Hardness Change Volume Change Elongation Change Tensile Strength Change	ISO 1817	 -4° +6,3% -41% -4,8 MPa

4. Temperature Resistance

- -30° to +120°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
Inorganic acids	:	excellent

6. Advantages

- Excellent resistance to aliphatic hydrocarbons, mineral oils, greases, vegetable and animal oils, heating oil and diesel fuel.
- FDA 177.2600 class 1, extraction tested.
- Certificates on demand.
- This compound is ADI (Animal Derived Ingredient Free).

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.

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