NBR 90-compound 366303 Vulc-O-Ring - Technical Data Sheet

1. Introduction

NBR 90-compound 477303 is a Acrylonitrile Butadiene compound with extremely good compression set. Cure system is sulphur. Ideal for Vulc-O-Rings.

2. Product Description

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

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	*Norm*	*Test Values*
Hardness	ISO 868	90° ± 5° IRHD
Tensile Strength at break	ISO 37	15 MPa
Elongation at break	ISO 37	217%
Specific Weight	ISO 2781	1,31
Compression Set	ISO 815	
24h/100°C, on slab		17%
Heat Ageing 70h/100°C	ISO 188	
Hardness Change		+3°
Tensile Strength Change		+4 MPa
Elongation Change		-18%
Immersion in ASTM oil n°3, 72h/100°C		
Volume Change		+5%
Hardness Change		0°
Elongation Change		+3%

4. Temperature Resistance

- -20° 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

- Extremely good compression-set
- Excellent resistance to oils, hydraulic fluids and most hydrocarbons

7. Other Information on Vulc-O-Rings

- Very smooth surface
- Can be produced to +0,05 mm tolerances
- Tolerances on cross section according to ISO 3302.
- Tolerances on O-Ring inside diameter according to ISO 3302 up to diameter 160 mm.
  Bigger diameters: tolerances ±0,5%