

NBR 90-compound 47702 - Technical Data Sheet

1. Introduction

NBR 90-compound 47702 is a Nitrile compound with medium percentage of Acrylonitrile. Standard compound with good compression set values for contact with hydraulic fluids.

2. Product Description

Chemical Composition :	Acrylonitrile / Butadiene Rubber
Physical form :	O-Rings / Mouldings
Colour :	Black
Odour :	None
Storage stability * :	± 7 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	90 ± 5 IRHD
Tensile Strength at break	ISO 37	min 16 MPa
Elongation at break	ISO 37	min 150%
Specific Weight	ISO 2781	1,25
Compression Set	ISO 815	
25% compression - 22h/100°C on slab	ISO 815	max 13%
on O-Ring (3,53 mm)		max 25%
Heat Ageing 70h/100°C	ISO 188	
Hardness Change		max +4°

4. Temperature Resistance

- -30° to +120°C
- TR10 (low temp. resistance): -22°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

- Good compression-set
- Stock item for ca 2000 dimensions
- Standard O-Ring compound
- Good balance price/lifetime

7. Other Information

- Can be formulated to meet FDA 177.2600 compliance