



NBR 90-compound 47702

Introduction

NBR 90-compound 47702 is a Nitrile compound with medium percentage of Acrylonitrile. Genuine high quality compound with excellent compression set values for high pressure contact with hydraulic fluids.

Product Description

Chemical Composition	: Acrylonitrile / Butadiene Rubber
Physical form	: O-Rings / Mouldings
Hardness	: 90° Shore
Colour	: Black
Odour	: None
Storage stability *	: ± 7 years
* : Following ISO 2230 conditions	

Physical Properties

See table 1

Temperature Resistance

-30° to +120 °C

TR10 (low temp. resistance): -22 °C

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

Advantages	: Good compression-set Stock item for ca 2000 dimensions Standard O-Ring compound Good balance price/lifetime
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Other Information	: Can be formulated to meet FDA 177.2600 compliance
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Tabel 1: 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	ISO 815	
on slab		max 13%
on O-Ring (3,53 mm)		max 25%
Heat Ageing 70h/100°C	ISO 188	
Hardness Change		max +4°

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