

NBR 80-compound 44601 - Technical Data Sheet

1. Introduction

NBR 80-compound 44601 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	80° ± 5° IRHD
Tensile Strength at break	ISO 37	14,5 MPa
Elongation at break	ISO 37	490%
Specific Weight	ISO 2781	1,25
Compression Set	ISO 815	
25% compression - 22h/100°C on slab		max 12%
on O-Ring (3,53 mm)	ISO 815	max 20%
Heat Ageing 70h/100°C	ISO 188	
Hardness Change		max +6°

4. Temperature Resistance

- -30° to +120°C
- TR10 (low temp. resistance): -16°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

- Low compression set
- For small quantities
- Standard O-Ring compound for small quantities
- good balance price/lifetime

7. Other Information

- Can be formulated to meet FDA 177.2600 compliance

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.