

## 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 25% compression - 22h/100°C on slab	ISO 815	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

- Good 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