

## NBR 90 Compound 47702

ERIKS' 47702 is a standard grade nitrile compound with a medium percentage of acrylonitrile. Suitable for high pressure applications.



### Description

- **Chemical composition:** Acrylonitrile-butadiene rubber (nitrile)
- **Physical form:** O-rings, moulded parts
- **Colour:** Black
- **Temperature resistance:** -30°C to +120°C

### Application

- General purpose
- Hydrocarbons
- High pressure

### Compliances

- ADI
- REACH
- RoHS

### Additional information

- Wide range of O-rings available from stock

Please consult our [Chemical Resistance Guide](#) for more information on this compound.



Table 1: Physical properties

| Property  | Test standard | Value | Unit |
|---|---------------|-------|------|
| Hardness  | ISO 48        | 89±5  | IRHD |
| Elongation at break                             | ISO 37        | 150   | %    |
| Tensile strength                                | ISO 37        | 16    | MPa  |
| <b>Compression Set</b> – 24 hours at 100°C Slab | ISO 815       | 13    | %    |

Table 2:

| Property   | Test standard | Value | Unit |
|--|---------------|-------|------|
| <b>Heat ageing</b> – 70 hours at 100°C                 | ISO 188       |       |      |
| Hardness change  |               | +4    | IRHD |
| Elongation at break change                             |               | -22   | %    |
| Tensile strength change                                |               | +5    | %    |
| <b>Immersion in ASTM oil nr. 3</b> – 70 hours at 100°C | ISO 1817      |       |      |
| Hardness change  |               | -5    | IRHD |
| Elongation at break change                             |               | -10   | %    |
| Tensile strength change                                |               | -4    | %    |
| Volume change  |               | +4    | %    |