

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
Compression Set – 24 hours at 100°C Slab	ISO 815	13	%

Table 2:

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