



NBR 70 Compound 366470

ERIKS' NBR is a specialist grade nitrile compound developed for food contact. The compound has a medium percentage of acrylonitrile, a good compression set as well as FDA 21 CFR 177.2600, EC1935:2004 and 3-A compliance.

Characteristics

- Colour: Black
- Temp. resistance low: -30 °C
- Temp. resistance high: 110 °C
- Hardness tolerance: -5/+5



Approval & Compliancy details

For Food & Beverage compliances, see Declaration of Compliance for typical application of the compound.

- 3-A Class II
- ADI Free
- EC1935:2004
- FDA 21CFR177.2600 a-d, e, f
- REACH
- RoHS

Products

- Custom parts (moulded)
- O-rings (moulded)

Table: Physical Properties

Property	Value	Unit
Hardness IRHD - Slab	70	
Hardness - Test standard	ISO48	
Compression set - Slab	20	%
Compression set - Duration @ temperature	22 hours at 100°C	
Compression set Test standard	ISO815	
Elongation at break	351	%
Elongation at break - Test standard	ISO37	
Tensile strength	17.3	MPa
Tensile strength - Test standard	ISO37	
100% Modulus	4	MPa
100% Modulus - Test standard	ISO37	
TR10 Low temperature resistance	-16	°C
TR10 Low temperature resistance - Test standard	ISO2921	

Disclaimer: The datasheet shows typical values and is verified against internal material specifications. The content of this document has been composed with the utmost care. However, it is possible that certain information changes over time, becomes inaccurate or incomplete. ERIKS does not guarantee that the information provided on this document is up to date, accurate and complete. The information provided is not intended to be used without advice. ERIKS shall never be liable for damage resulting from the use of the information provided.

Table: Heat ageing

Property	Value	Unit
Heat ageing - Duration @ temperature	168 hours at 70°C	
Heat ageing - Hardness change IRHD	2	
Heat ageing - Elongation at break change	-2	%
Heat ageing - Tensile strength change	2	%
Heat ageing - Volume change	-0.2	%
Heat ageing - Test standard	ISO 188	