



NBR 70 compound 36624

36624 is our standard grade nitrile compound with a medium percentage of acrylonitrile (ACN) and good compression set values.

Characteristics

- Colour: Black
- Temp. resistance low: -30 °C
- Temp. resistance high: 120 °C
- Hardness tolerance: -5/+5

Industries

- General Industry

Approval & Compliancy details

- REACH
- RoHS
- TSCA

Products

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



Table: Physical Properties

Property	Value	Unit
Hardness Shore A - Slab	70	
Hardness - Test standard	ASTM D2240	
Compression set - Slab	13	%
Compression set - Duration @ temperature	22 hours at 100°C	
Compression set Test standard	ASTM D395-B	
Elongation at break	329	%
Elongation at break - Test standard	ASTM D412	
Tensile strength	15.7	MPa
Tensile strength - Test standard	ASTM D412	
100% Modulus	4.3	MPa
100% Modulus - Test standard	ASTM D412	
Water ageing - Duration @ temperature	70 hours at 100°C	
Water ageing - Hardness change Shore A	-3	
Water ageing - Volume change	6.6	%

Table: Heat ageing

Property	Value	Unit
Heat ageing - Duration @ temperature	70 hours at 100°C	
Heat ageing - Hardness change Shore A	+3	

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 - Elongation at break change	-11	%
Heat ageing - Tensile strength change	+4.7	%
Heat ageing - Volume change	-0.6	%
Heat ageing - Test standard	ASTM D573	

Table: Immersion in IRM 901 oil

Property	Value	Unit
Immersion in IRM 901 oil - Duration @ temperature	70 hours at 100°C	
Immersion in IRM 901 oil - Hardness change Shore A	+7	
Immersion in IRM 901 oil - Elongation at break change	-11	%
Immersion in IRM 901 oil - Tensile strength change	+6.6	%
Immersion in IRM 901 oil - Volume change	-8.8	%
Immersion in IRM 901 oil - Test standard	ASTM D471	

Table: Immersion in IRM 903 oil

Property	Value	Unit
Immersion in IRM 903 oil - Duration @ temperature	70 hours at 100°C	
Immersion in IRM 903 oil - Hardness change Shore A	0	
Immersion in IRM 903 oil - Elongation at break change	-12.4	%
Immersion in IRM 903 oil - Tensile strength change	+2.4	%
Immersion in IRM 903 oil - Volume change	+1.5	%
Immersion in IRM 903 oil - Test standard	ASTM D471	

Table: Immersion in ASTM Fuel A

Property	Value	Unit
Immersion in ASTM Fuel A - Duration @ temperature	70 hours at 23°C	
Immersion in ASTM Fuel A - Hardness change Shore A	0	
Immersion in ASTM Fuel A - Elongation at break change	-8	%

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Table: Immersion in ASTM Fuel A

Property	Value	Unit
Immersion in ASTM Fuel A - Tensile strength change	-3	%
Immersion in ASTM Fuel A - Volume change	+1	%
Immersion in ASTM Fuel A - Test standard	ASTM D471	

Table: Immersion in ASTM Fuel B

Property	Value	Unit
Immersion in ASTM Fuel B - Duration @ temperature	70 hours at 23°C	
Immersion in ASTM Fuel B - Hardness change Shore A	-11	
Immersion in ASTM Fuel B - Elongation at break change	-30.5	%
Immersion in ASTM Fuel B - Tensile strength change	-32	%
Immersion in ASTM Fuel B - Volume change	+23.8	%
Immersion in ASTM Fuel B - Test standard	ASTM D471	