

B571 NBR

16/07/2014



WHITE NITRILE SHEETING: FOOD QUALITY

FEATURES

NBR, white, food grade, meeting regulation (EC) 1935/2004 (European legislation) and FDA classification (American legislation).

REGULATIONS

- Meeting european regulations (EC) n° 1935/2004 and 2023/2006
- The material is in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600. Rubber articles intended for repeated use for contact with aqueous food and with fatty food
- Quality certificate available under request

ADVANTAGES

- Very good oil, animal and vegetable fats resistance
- Good low temperature resistance
- Good high temperature resistance
- Good ratio quality/price

BENEFITS

- Performance
- Legality
- Hygiene, cleanliness
- Food safety
- Economy

APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with fatty food products, especially vegetable fats.

MAINTENANCE RECOMMENDATION

Always follow manufacturer warnings and instructions when using any cleaning product.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	<i>Rubber compound - white</i>		NBR	○
	<i>Density</i>		1.44 ± 0.05	g/cm ³
	<i>Hardness</i>	ASTM D2240	65 ± 5	Shore A
	<i>Tensile strength</i>	ISO 37	≥ 10	MPa
	<i>Elongation at break</i>	ISO 37	≥ 400	%
	<i>Tear resistance</i>	ISO 34-1	≥ 20	N/mm
	<i>Compression set after 22 h at 70 °C</i>	ISO 815-1	≤ 30	%
TEMPERATURE				
	<i>Working temperature</i>		- 35/+ 110	°C
AGEING				
	<i>Δ Hardness after 70 h at 70 °C</i>	ASTM D573	≤ 5	Shore A
	<i>Δ Tensile strenght after 70 h at 70 °C</i>	ASTM D573	≤ - 15	%
	<i>Δ Elongation at break after 70 h at 70 °C</i>	ASTM D573	≤ - 40	%
OIL RESISTANCE				
	<i>Oil IRM 901, Δ volume after 70 h at 70 °C</i>	ASTM D471	≤ 5	%
	<i>Oil IRM 903, Δ volume after 70 h at 70 °C</i>	ASTM D471	≤ 25	%
CHEMICAL RESISTANCE				
	<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>
	Very good	Good	Medium	Very good

DIMENSIONS

	Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Sides finish
1	± 0.3	1400 ± 2 %	20 ± 2 %	1.44	2 smooth sides
1.5	± 0.3	1400 ± 2 %	15 ± 2 %	2.16	2 smooth sides
2	± 0.3	1400 ± 2 %	15 ± 2 %	2.88	2 smooth sides
3	± 0.3	1400 ± 2 %	10 ± 2 %	4.32	2 smooth sides
4	± 0.4	1400 ± 2 %	10 ± 2 %	5.76	2 smooth sides
5	± 0.4	1400 ± 2 %	10 ± 2 %	7.20	2 smooth sides
6	± 0.5	1400 ± 2 %	10 ± 2 %	8.64	2 smooth sides
8	± 0.7	1400 ± 2 %	5 ± 2 %	11.52	2 smooth sides
10	± 1.0	1400 ± 2 %	5 ± 2 %	14.40	2 smooth sides

IDENTIFICATION

<i>Branding</i>	Without.
<i>Packaging</i>	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
<i>Wrapping</i>	Black polyethylene film.
<i>Labelling</i>	Self-adhesive label indicating product name, dimensions, area in m ² , nominal weight, and product code to allow product traceability.