

BF31 NBR

16/07/2014



NITRILE SHEETING: FOR TRANSFORMER OIL

FEATURES

High grade NBR.

ADVANTAGES

- Excellent mechanical properties, compression set in particular
- Excellent temperature resistance
- Excellent low temperature resistance
- Excellent ageing resistance
- Excellent hydrocarbons resistance
- Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

BENEFITS

- Reliability
- Safety

APPLICATIONS

Cutting gaskets for sealing between the tank and the lid of immersed electrical transformers in contact with synthetic dielectric and mineral oils.

No resistance to pyralene.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	Rubber compound - black		NBR	●
	Density		1.30 ± 0.05	g/cm ³
	Hardness	ASTM D2240	70 ± 5	Shore A
	Tensile strength	ISO 37	≥ 13	MPa
	Elongation at break	ISO 37	≥ 300	%
	Tear resistance, crescent specimen	ISO 34-1	≥ 20	N/mm
	Compression set after 70 h at 100 °C	ISO 815-1	≤ 40	%
TEMPERATURE				
	Working temperature		- 40/+ 130	°C
AGEING				
	Δ Tensile strength after 168 h at 70 °C	ASTM D573	≤ - 20	%
	Δ Elongation at break after 168 h at 70 °C	ASTM D573	≤ - 30	%
	Oil IRM 903, Δ Tensile strength after 72 h at 100 °C	ASTM D573	≤ - 20	%
	Oil IRM 903, Δ Elongation at break after 72 h at 100 °C	ASTM D573	≤ - 40	%
OIL RESISTANCE				
	Oil IRM 901, Δ volume after 70 h at 100 °C	ASTM D471	- 20/5	%
	Oil IRM 903, Δ volume after 70 h at 100 °C	ASTM D471	± 5	%
CHEMICAL RESISTANCE				
	Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
	Very good	Good	Medium	Very good

DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Sides finish
2 ± 0.3	1400 ± 2 %	15 ± 2 %	2.60	2 sides matt
3 ± 0.3	1400 ± 2 %	10 ± 2 %	3.90	2 sides matt
4 ± 0.4	1400 ± 2 %	10 ± 2 %	5.20	2 sides matt
5 ± 0.4	1400 ± 2 %	10 ± 2 %	6.50	1 side smooth/1 side matt
6 ± 0.5	1400 ± 2 %	10 ± 2 %	7.80	1 side smooth/1 side matt

IDENTIFICATION

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