

BF31 NBR

black | density 1.30 | hardness 70

03/07/2014

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			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 strenght 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 strenght 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)	Pattern
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.