BF31
NBR



NITRILE SHEETING FOR TRANSFORMER OIL

FEATURES
High grade NBR.

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.

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 and to secure an easy unrolling.

BENEFITS
- Reliability
- Safety

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics	Standard	Value	
MECHANICAL			
Rubber compound - black		NBR	l
Density		1.30 ±0.05	g/cm³
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 70h at 100 °C	ISO 815-1	≤40	%
TEMPERATURE			
Working temperature		-40/+130	°C
AGEING			
Δ Tensile strength after 168h at 70 °C	ASTM D573	≤-20	%
Δ Elongation at break after 168h at 70 °C	ASTM D573	≤-30	%
Oil IRM 903, Δ Tensile strength after 72h at 100 °C	ASTM D573	≤-20	
Oil IRM 903, Δ Elongation at break after 72h at 100 °C	ASTM D573	≤-40	
Ozone resistance, 50 pphm, 48h, 40°C, 20%	ASTM D1149 type A	Without cracks	
OIL RESISTANCE			
Oil IRM 901, Δ volume after 70h at 100 °C	ISO 1817	-20/5	%
Oil IRM 903, Δ volume after 70h at 100 °C	ISO 1817	±5	%
Transformer oil, Δ volume after 70 at 100 °C	ISO 1817	≤ 5%	%

CHEMICAL RESISTANCE			
Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
Very good	Good	Good	Very good

IDENTIFICATION	
Branding	Without.
Packaging	Thickness ≤6mm rolled on cardboard tube Ø 80mm. Thickness >6mm in roll.
Wrapping	Black polyethylene film.
Labelling	Self-adhesive label indicating product name, dimensions, area in m², nominal weight, and product code to allow product traceability.

Unless typographical error, information and figures of our technical datasheet are based on our experience and laboratory tests according to international standards. This data is intended to be used as a guideline only. Material performance depends on the conditions of use and the final application.

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THICKNESS mm	**WIDTH** mm	**LENGTH** m	**WEIGHT** kg/m²	**SIDES FINISH**	
2 ±0.3	1400 ± 2 %	15 ± 2 %	2.62	2 SIDES MATT	
3 ±0.3	1400 ± 2 %	10 ± 2 %	3.93	2 SIDES MATT	
4 ±0.4	1400 ± 2 %	10 ± 2 %	5.24	2 SIDES MATT	
5 ±0.4	1400 ± 2 %	10 ± 2 %	6.56	1 SIDE SMOOTH/1 SIDE MATT	
6 ±0.5	1400 ± 2 %	10 ± 2 %	7.87	1 SIDE SMOOTH/1 SIDE MATT	

TRELLEBORG