

BF50 NBR

black | density 1.35 | hardness 65

03/07/2014

NITRILE SHEETING: STANDARD LEVEL QUALITY

FEATURES

Standard NBR.

ADVANTAGES

- ▶ Good resistance to hydrocarbons
- ▶ Good ratio quality/price

BENEFITS

- ▶ Reliability
- ▶ Economy

APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with oils and hydrocarbons (swelling in IRM 903, 70 hours at 100 °C, Δ volume \leq 30 %).

No resistance to petrol, oxygenated fuel, domestic gas.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

MECHANICAL	Measured characteristics	Standard	Value
	Rubber compound		NBR
	Density		1.35 \pm 0.05 g/cm ³
	Hardness	ASTM D2240	65 \pm 5 Shore A
	Tensile strength	ISO 37	\geq 5 MPa
	Elongation at break	ISO 37	\geq 300 %
	Tear resistance	ISO 34-1	\geq 17 N/mm
	Compression set after 22 h at 70 °C	ISO 815-1	\leq 40 %
	Compression set after 22 h at 100 °C	ISO 815-1	\leq 60 %

TEMPERATURE

Working temperature	- 25/+ 90 °C
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OIL RESISTANCE

Oil IRM 903, Δ volume after 70 h at 100 °C	ASTM D471	\leq 30 %
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CHEMICAL RESISTANCE

Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
Very good	Good	Medium	Good

DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Pattern	Option (ply)	
1	\pm 0.3	1400 \pm 2 %	20 \pm 2 %	1.35	2 smooth sides	
1.5	\pm 0.3	1400 \pm 2 %	15 \pm 2 %	2.03	2 smooth sides	
2	\pm 0.3	1400 \pm 2 %	15 \pm 2 %	2.70	2 smooth sides	1P
3	\pm 0.3	1400 \pm 2 %	10 \pm 2 %	4.05	2 smooth sides	1P
4	\pm 0.4	1400 \pm 2 %	10 \pm 2 %	5.40	2 smooth sides	2P
5	\pm 0.4	1400 \pm 2 %	10 \pm 2 %	6.75	2 smooth sides	2P
6	\pm 0.5	1400 \pm 2 %	10 \pm 2 %	8.10	2 smooth sides	
8	\pm 0.7	1400 \pm 2 %	5 \pm 2 %	10.80	2 smooth sides	
10	\pm 1.0	1400 \pm 2 %	5 \pm 2 %	13.50	2 smooth sides	
12	\pm 1.0	1400 \pm 2 %	5 \pm 2 %	16.20	2 smooth sides	
15	\pm 1.0	1400 \pm 2 %	5 \pm 2 %	20.25	2 smooth sides	
20	\pm 1.4	1400 \pm 2 %	5 \pm 2 %	27.00	2 smooth sides	

IDENTIFICATION

Branding	Without.
Packaging	Thickness \leq 6 mm rolled on cardboard tube \varnothing 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.