

BF50 NBR

16/07/2014



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

Measured characteristics		Standard	Value	
MECHANICAL				
<i>Rubber compound - black</i>			NBR	
<i>Density</i>			1.35 \pm 0.05	g/cm ³
<i>Hardness</i>		ASTM D2240	65 \pm 5	Shore A
<i>Tensile strength</i>		ISO 37	\geq 5	MPa
<i>Elongation at break</i>		ISO 37	\geq 300	%
<i>Tear resistance</i>		ISO 34-1	\geq 17	N/mm
<i>Compression set after 22 h at 70 °C</i>		ISO 815-1	\leq 40	%
<i>Compression set after 22 h at 100 °C</i>		ISO 815-1	\leq 60	%
TEMPERATURE				
<i>Working temperature</i>			- 25/+ 90	°C
OIL RESISTANCE				
<i>Oil IRM 903, Δ volume after 70 h at 100 °C</i>		ASTM D471	\leq 30	%
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	Good	

DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Sides finish	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 
3	\pm 0.3	1400 \pm 2 %	10 \pm 2 %	4.05	2 smooth sides 
4	\pm 0.4	1400 \pm 2 %	10 \pm 2 %	5.40	2 smooth sides 
5	\pm 0.4	1400 \pm 2 %	10 \pm 2 %	6.75	2 smooth sides 
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

<i>Branding</i>	Without.
<i>Packaging</i>	Thickness \leq 6 mm rolled on cardboard tube \varnothing 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.