

BS08 NBR

16/07/2014



NITRILE 70 SHEETING: FOR TECHNICAL APPLICATIONS

FEATURES

High grade 70 Shore A NBR.

ADVANTAGES

- Excellent oil and grease resistance (maximum temperature + 100 °C)
- Excellent hydrocarbons resistance (aromatics content less than 30 % and maximum temperature + 20 °C)
- Antistatic sheeting ($2 \cdot 10^4 \Omega \text{m}$) (IEC 93)
- Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

BENEFITS

- Reliability
- Safety
- Performance


APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with:

- mineral oils
- hydrocarbons

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	<i>Rubber compound - black</i>		NBR	
	<i>Density</i>		1.30 ± 0.05	g/cm ³
	<i>Hardness</i>	ASTM D2240	70 ± 5	Shore A
	<i>Tensile strength</i>	ISO 37	≥ 10	MPa
	<i>Elongation at break</i>	ISO 37	≥ 250	%
	<i>Tear resistance</i>	ISO 34-1	≥ 30	N/mm
	<i>Compression set after 24 h at 70 °C</i>	ISO 815-1	≤ 15	%
	<i>Compression set after 24 h at 100 °C</i>	ISO 815-1	≤ 20	%
TEMPERATURE				
	<i>Working temperature</i>		- 30/+ 100	°C
AGEING				
	<i>Δ Hardness after 72 h at 100 °C</i>	ASTM D573	≤ 10	Shore A
	<i>Δ Tensile strength after 72 h at 100 °C</i>	ASTM D573	± 5	%
	<i>Δ Elongation at break after 72 h at 100 °C</i>	ASTM D573	≤ - 35	%
OIL RESISTANCE				
	<i>Oil IRM 901, Δ volume after 72 h at 100 °C</i>	ASTM D471	≤ - 16	%
	<i>Oil IRM 903, Δ volume after 72 h at 100 °C</i>	ASTM D471	± 5	%
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	Very good

DIMENSIONS

	Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Sides finish
1	± 0.3	1400 ± 2 %	20 ± 2 %	1.30	2 sides matt
1.5	± 0.3	1400 ± 2 %	15 ± 2 %	1.95	2 sides matt
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
8	± 0.7	1400 ± 2 %	5 ± 2 %	10.40	1 side smooth/1 side matt
10	± 1.0	1400 ± 2 %	5 ± 2 %	13.00	1 side smooth/1 side matt

IDENTIFICATION

<i>Branding</i>	Without.
<i>Packaging</i>	Thickness ≤ 6 mm rolled on cardboard tube Ø 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.