

BS11 NBR

16/07/2014



NITRILE 50 SHEETING: FOR TECHNICAL APPLICATIONS

FEATURES

High grade 50 Shore A nitrile.

ADVANTAGES

- Excellent oil and grease resistance (maximum temperature + 70 °C)
- Excellent hydrocarbons resistance (aromatics content less than 30 % and maximum temperature + 20 °C)
- 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 and hydrocarbons.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value
MECHANICAL			
	<i>Rubber compound - black</i>		NBR 
	<i>Density</i>		1.20 ± 0.05 g/cm ³
	<i>Hardness</i>	ASTM D2240	50 ± 5 Shore A
	<i>Tensile strength</i>	ISO 37	≥ 8 MPa
	<i>Elongation at break</i>	ISO 37	≥ 450 %
	<i>Tear resistance</i>	ISO 34-1	≥ 30 N/mm
	<i>Compression set after 24 h at 70 °C</i>	ISO 815-1	≤ 25 %
TEMPERATURE			
	<i>Working temperature</i>		- 30/+ 70 °C
AGEING			
	<i>Δ Hardness after 72 h at 100 °C</i>	ASTM D573	≤ 7 Shore A
	<i>Δ Tensile strength after 72 h at 100 °C</i>	ASTM D573	≤ - 25 %
	<i>Δ Elongation at break after 72 h at 100 °C</i>	ASTM D573	≤ - 55 %
OIL RESISTANCE			
	<i>Oil IRM 901, Δ volume after 72 h at 100 °C</i>	ASTM D471	≤ - 15 %
	<i>Oil IRM 903, Δ volume after 72 h at 100 °C</i>	ASTM D471	≤ 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	Very good

DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m²)	Sides finish
1	± 0.3	1400	± 2 %	20	± 2 %	1.20	2 sides matt
2	± 0.3	1400	± 2 %	15	± 2 %	2.40	2 sides matt
3	± 0.3	1400	± 2 %	10	± 2 %	3.60	2 sides matt
4	± 0.4	1400	± 2 %	10	± 2 %	4.80	2 sides matt
5	± 0.4	1400	± 2 %	10	± 2 %	6.00	1 side smooth/1 side matt
6	± 0.5	1400	± 2 %	10	± 2 %	7.20	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.