

BS33 NBR

black | density 1.28 | hardness 60

03/07/2014

NITRILE 60 SHEETING: FOR TECHNICAL APPLICATIONS

FEATURES

High grade 60 Shore A nitrile.

ADVANTAGES

- ▶ Excellent oil and grease resistance (maximum temperature + 110 °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</i>			NBR	
<i>Density</i>			1.28 ± 0.05	g/cm ³
<i>Hardness</i>		ASTM D2240	60 ± 5	Shore A
<i>Tensile strength</i>		ISO 37	≥ 10	MPa
<i>Elongation at break</i>		ISO 37	≥ 350	%
<i>Tear resistance</i>		ISO 34-1	≥ 25	N/mm
<i>Compression set after 22 h at 70 °C</i>		ISO 815-1	≤ 30	%
TEMPERATURE				
<i>Working temperature</i>			- 25/+ 110	°C
AGEING				
<i>Δ Hardness after 70 h at 70 °C</i>		ASTM D573	≤ 5	Shore A
<i>Δ Tensile strength after 70 h at 70 °C</i>		ASTM D573	≤ - 15	%
<i>Δ Elongation at break after 70 h at 70 °C</i>		ASTM D573	≤ - 40	%
OIL RESISTANCE				
<i>Oil IRM 901, Δ volume after 70 h at 70 °C</i>		ASTM D471	≤ 5	%
<i>Oil IRM 903, Δ volume after 70 h at 70 °C</i>		ASTM D471	≤ 20	%
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)	Pattern
2	± 0.3	1400	± 2 %	15	± 2 %	2.56	2 sides matt
3	± 0.3	1400	± 2 %	10	± 2 %	3.84	2 sides matt
4	± 0.4	1400	± 2 %	10	± 2 %	5.12	2 sides matt
5	± 0.4	1400	± 2 %	10	± 2 %	6.40	1 side smooth/1 side matt
6	± 0.5	1400	± 2 %	10	± 2 %	7.68	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.