

BS33 NBR

16/07/2014



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.

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
MECHANICAL				
Rubber compound - black			NBR	
Density			1.28 ± 0.05	g/cm ³
Hardness		ASTM D2240	60 ± 5	Shore A
Tensile strength		ISO 37	≥ 10	MPa
Elongation at break		ISO 37	≥ 350	%
Tear resistance		ISO 34-1	≥ 25	N/mm
Compression set after 22 h at 70 °C		ISO 815-1	≤ 30	%
TEMPERATURE				
Working temperature			- 25/+ 110	°C
AGEING				
Δ Hardness after 70 h at 70 °C		ASTM D573	≤ 5	Shore A
Δ Tensile strength after 70 h at 70 °C		ASTM D573	≤ - 15	%
Δ Elongation at break after 70 h at 70 °C		ASTM D573	≤ - 40	%
OIL RESISTANCE				
Oil IRM 901, Δ volume after 70 h at 70 °C		ASTM D471	≤ 5	%
Oil IRM 903, Δ volume after 70 h at 70 °C		ASTM D471	≤ 20	%
CHEMICAL RESISTANCE				
Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons	
Very good	Good	Medium	Very good	

DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m ²)	Sides finish
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

Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 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.