

B668 NBR

black | density 1.25 | hardness 70

03/07/2014

NITRILE SHEETING: VERY HIGH PERFORMANCE

FEATURES

High ACN content NBR sheeting.

ADVANTAGES

- ▶ Very good resistance to oils and hydrocarbons
- ▶ Good resistance to most inorganic chemical products
- ▶ Satisfactory resistance to aliphatic hydrocarbons
- ▶ Good ageing resistance
- ▶ Good dry high temperature resistance (maximum temperature + 120 °C)
- ▶ Good ratio quality/price
- ▶ Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

BENEFITS

- ▶ Reliability
- ▶ Safety
- ▶ Service life

APPLICATIONS

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

- ▶ animal and vegetable fats and oils (maximum + 100 °C)
- ▶ hydrocarbons with aromatics content less than 30 % (maximum + 20 °C)

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

MECHANICAL	Measured characteristics	Standard	Value	
	Rubber compound		NBR	
	Density		1.25 ± 0.05	g/cm ³
	Hardness	ASTM D2240	70 ± 5	Shore A
	Tensile strength	ISO 37	≥ 13	MPa
	Elongation at break	ISO 37	≥ 250	%
	Tear resistance	ISO 34-1	≥ 30	N/mm
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 20	%
TEMPERATURE				
	Working temperature		- 30/+ 120	°C
AGEING				
	Δ Hardness after 70 h at 100 °C	ASTM D573	≤ 10	Shore A
	Δ Tensile strength after 70 h at 100 °C	ASTM D573	≤ - 15	%
	Δ Elongation at break after 70 h at 100 °C	ASTM D573	≤ - 35	%
OIL RESISTANCE				
	Oil IRM 901, Δ volume after 70 h at 100 °C	ASTM D471	≤ 5	%
	Oil IRM 903, Δ volume after 70 h at 100 °C	ASTM D471	≤ 12	%
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)	Pattern
1 ± 0.3	1400 ± 2 %	20 ± 2 %	1.25	2 sides matt
2 ± 0.3	1400 ± 2 %	15 ± 2 %	2.50	2 sides matt
3 ± 0.3	1400 ± 2 %	10 ± 2 %	3.75	2 sides matt
4 ± 0.4	1400 ± 2 %	10 ± 2 %	5.00	2 sides matt
5 ± 0.4	1400 ± 2 %	10 ± 2 %	6.25	1 side smooth/1 side matt
6 ± 0.5	1400 ± 2 %	10 ± 2 %	7.50	1 side smooth/1 side matt
8 ± 0.7	1400 ± 2 %	5 ± 2 %	10.00	1 side smooth/1 side matt
10 ± 1.0	1400 ± 2 %	5 ± 2 %	12.50	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.