BS11 NBR

black | density 1.20 | hardness 50

03/07/2014

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			
Rubber compound		NBR	
Density		1.20 ± 0.05	g/cm³
Hardness	ASTM D2240	50 ± 5	Shore A
Tensile strength	ISO 37	≥ 8	MPa
Elongation at break	ISO 37	≥ 450	%
Tear resistance	ISO 34-1	≥ 30	N/mm
Compression set after 24 h at 70 °C	ISO 815-1	≤ 25	%
TEMPERATURE			
Working temperature		- 30/+ 70	°C
AGEING			
Δ Hardness after 72 h at 100 °C	ASTM D573	≤ 7	Shore A
Δ Tensile strenght after 72 h at 100 °C	ASTM D573	≤ - 25	%
Δ Elongation at break after 72 h at 100 °C	ASTM D573	≤ - 55	%
OIL RESISTANCE			
Oil IRM 901, Δ volume after 72 h at 100 °C	ASTM D471	≤ - 15	%
Oil IRM 903, Δ volume after 72 h at 100 °C	ASTM D471	≤ 30	%
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/m²)*	*Pattern*
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

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 m², nominal weight, and product code to allow product traceability.