

# BS11 NBR



## NITRILE 50 SHEETING FOR TECHNICAL APPLICATIONS

### FEATURES

High grade 50 Shore A nitrile.

### APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general industrial purpose applications in contact with mineral oils and hydrocarbons.

### 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 and to secure an easy unrolling.

### BENEFITS

- Reliability
- Safety
- Performance

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
<b>MECHANICAL</b>				
Rubber compound - black			NBR	I
Density			1.20 ±0.05	g/cm <sup>3</sup>
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 24h at 70 °C	ISO 815-1		≤25	%
<b>TEMPERATURE</b>				
Working temperature			-30/+110	°C
<b>AGEING</b>				
Δ Hardness after 72h at 100 °C		ASTM D573	≤7	Shore A
Δ Tensile strength after 72h at 100 °C		ASTM D573	≤-25	%
Δ Elongation at break after 72h at 100 °C		ASTM D573	≤-55	%
<b>OIL RESISTANCE</b>				
Oil IRM 901, Δ volume after 72h at 100 °C		ISO 1817	≤-15	%
Oil IRM 903, Δ volume after 72h at 100 °C		ISO 1817	≤-30	%
<b>CHEMICAL RESISTANCE</b>				
Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons	
Very good	Good	Medium	Very good	

## IDENTIFICATION

Branding	Without.
Packaging	Thickness ≤6mm rolled on cardboard tube Ø 80mm. Thickness >6mm in roll.
Wrapping	Black polyethylene film.
Labelling	Self-adhesive label indicating product name, dimensions, area in m <sup>2</sup> , nominal weight, and product code to allow product traceability.

Unless typographical error, information and figures of our technical datasheet are based on our experience and laboratory tests according to international standards. This data is intended to be used as a guideline only. Material performance depends on the conditions of use and the final application.

NBR		NITRILE 50 SHEETING		BS11	
THICKNESS mm	WIDTH mm	LENGTH m	WEIGHT kg/m <sup>2</sup>	SIDES FINISH	
1±0.2	1400±2%	20±2%	1.2	2 SIDES MATT	
2±0.3	1400±2%	15±2%	2.4	2 SIDES MATT	
3±0.3	1400±2%	10±2%	3.6	2 SIDES MATT	
4±0.4	1400±2%	10±2%	4.8	2 SIDES MATT	
5±0.4	1400±2%	10±2%	6.04	1 SIDE SMOOTH/1 SIDE MATT	
6±0.5	1400±2%	10±2%	7.25	1 SIDE SMOOTH/1 SIDE MATT	

