

R499 NR

16/09/2014

NR SHEETING: HIGH PERFORMANCE

FEATURES

Natural rubber, para quality, translucent, with excellent mechanical properties.

ADVANTAGES

- Good properties to support high mechanical strains
- Great elasticity allowing important deformations
- Resistance to fine grained particles wear projection (sand, blasting)
- Good electrical properties
- Good resistance to acids, bases and salts
- Good ratio quality/price

BENEFITS

- Functionality
- Comfort
- Service life
- Economy

APPLICATIONS

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


- maximum temperature 50 °C: water, water washing, alkaline and salt solutions, acids and oxidizing non oxidizing, alkali base concentration ≤ 50 %, non food alcohol
- maximum temperature 20 °C: acetones

Cutting into skirtboard and scrappers for conveyors belts, rubber sleeves, etc.

Mineral processing equipment linings, such as operating cyclones, hydrocyclones and sand treatment processes.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	Rubber compound - beige		NR	
	Density		1.00 ± 0.05	g/cm ³
	Hardness	ASTM D2240	43 ± 5	Shore A
	Tensile strength	ISO 37	≥ 20	MPa
	Elongation at break	ISO 37	≥ 650	%
	Tear resistance	ISO 34-1	≥ 30	N/mm
	Abrasion resistance (5 N)	ISO 4649	≤ 80	mm ³
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 30	%
TEMPERATURE				
	Working temperature		- 40/+ 80	°C
AGEING				
	Δ Hardness after 70 h at 70 °C	ASTM D573	≤ 5	Shore A
	Δ Tensile strenght after 70 h at 70 °C	ASTM D573	≤ - 15	%
	Δ Elongation at break after 70 h at 70 °C	ASTM D573	≤ - 25	%
CHEMICAL RESISTANCE				
	Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
	Very good	Good	Medium	Non suitable

DIMENSIONS

	Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Sides finish
1	± 0.3	1400 ± 2 %	20 ± 2 %	1.00	2 smooth sides
1.5	± 0.3	1400 ± 2 %	15 ± 2 %	1.50	2 smooth sides
2	± 0.3	1400 ± 2 %	15 ± 2 %	2.00	2 smooth sides
3	± 0.3	1400 ± 2 %	10 ± 2 %	3.00	2 smooth sides
4	± 0.4	1400 ± 2 %	10 ± 2 %	4.00	2 smooth sides
5	± 0.4	1400 ± 2 %	10 ± 2 %	5.00	2 smooth sides
6	± 0.5	1400 ± 2 %	10 ± 2 %	6.00	2 smooth sides
8	± 0.7	1400 ± 2 %	10 ± 2 %	8.00	2 smooth sides
10	± 1.0	1400 ± 2 %	10 ± 2 %	10.00	2 smooth sides

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.