



R499 NR

beige | density 1.00 | hardness 43

03/07/2014

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

MECHANICAL	Measured characteristics	Standard	Value	
	Rubber compound		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	
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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)	Pattern
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.