



R490 NR

beige | density 1.05 | hardness 45

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NR SHEETING: HIGH PERFORMANCE

FEATURES

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

ADVANTAGES

- ▶ Very good mechanical properties (tensile strength, tear resistance etc.) and at the same time, easy material to work with
- ▶ 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				
<i>Rubber compound</i>			NR	
<i>Density</i>			1.05 ± 0.05	g/cm ³
<i>Hardness</i>		ASTM D2240	45 ± 5	Shore A
<i>Tensile strength</i>		ISO 37	≥ 16	MPa
<i>Elongation at break</i>		ISO 37	≥ 600	%
<i>Tear resistance</i>		ISO 34-1	≥ 25	N/mm
<i>Abrasion resistance (5 N)</i>		ISO 4649	≤ 85	mm ³
<i>Compression set after 22 h at 70 °C</i>		ISO 815-1	≤ 30	%
TEMPERATURE				
<i>Working temperature</i>			- 40/+ 85	°C
AGEING				
<i>Δ Hardness after 70 h at 70 °C</i>		ASTM D573	≤ 5	Shore A
<i>Δ Tensile strenght after 70 h at 70 °C</i>		ASTM D573	≤ - 15	%
<i>Δ Elongation at break after 70 h at 70 °C</i>		ASTM D573	≤ - 25	%
CHEMICAL RESISTANCE				
<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>	
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 %	1.05	2 smooth sides
1.5	± 0.3	1400	± 2 %	15	± 2 %	1.58	2 smooth sides
2	± 0.3	1400	± 2 %	15	± 2 %	2.10	2 smooth sides
3	± 0.3	1400	± 2 %	10	± 2 %	3.15	2 smooth sides
4	± 0.4	1400	± 2 %	10	± 2 %	4.20	2 smooth sides
5	± 0.4	1400	± 2 %	10	± 2 %	5.25	2 smooth sides
6	± 0.5	1400	± 2 %	10	± 2 %	6.30	2 smooth sides
8	± 0.7	1400	± 2 %	5	± 2 %	8.40	2 smooth sides
10	± 1.0	1400	± 2 %	5	± 2 %	10.50	2 smooth sides
12	± 1.0	1400	± 2 %	5	± 2 %	12.60	2 smooth sides
15	± 1.0	1400	± 2 %	5	± 2 %	15.75	2 smooth sides
20	± 1.4	1400	± 2 %	5	± 2 %	21.00	2 smooth sides
25	± 1.75	1400	± 2 %	5	± 2 %	26.25	2 smooth sides

IDENTIFICATION

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