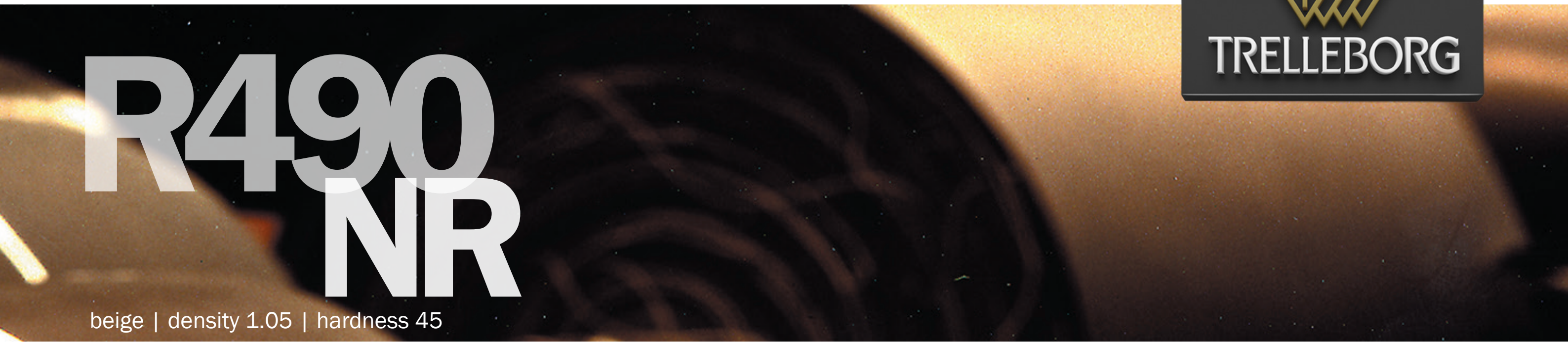
TRELLEBORG



R490 NR

beige | density 1.05 | hardness 45

03/07/2014

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			
Rubber compound		NR	
Density		1.05 ± 0.05	g/cm³
Hardness	ASTM D2240	45 ± 5	Shore A
Tensile strength	ISO 37	≥ 16	MPa
Elongation at break	ISO 37	≥ 600	%
Tear resistance	ISO 34-1	≥ 25	N/mm
Abrasion resistance (5 N)	ISO 4649	≤ 85	mm³
Compression set after 22 h at 70 °C	ISO 815-1	≤ 30	%
TEMPERATURE			
Working temperature		- 40/+ 85	°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/m²)*	*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

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.