



# WHITEFINE NR

white | density 0.95 | hardness 40

03/07/2014

## MEDIUM WEAR SHEETING: FOOD QUALITY



### FEATURES

Wear resistant natural rubber, white, food grade, meeting regulation (EC) 1935/2004 (European legislation) and FDA classification (American legislation).

### REGULATIONS

- ▶ Meeting european regulations (EC) n° 1935/2004 and 2023/2006
- ▶ The material is in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600 Rubber articles intended for repeated use for contact with aqueous food
- ▶ Quality certificate available under request

### ADVANTAGES

- ▶ Excellent mechanical properties: tensile strength, elongation at break, tear resistance, abrasion, etc.
- ▶ Excellent resistance to fine grain size products projection and fretting wear: sand, shot blasting, fine particles, abrasive dust, etc.
- ▶ Corrosion protection
- ▶ Noise and vibration propagation reduction
- ▶ Possibility to be produced with bonding layer for cold vulcanizing or with steel backing for mechanical fixing

### BENEFITS

- ▶ Performance
- ▶ Legality
- ▶ Food safety
- ▶ Hygiene, cleanliness
- ▶ Service life

### APPLICATIONS

Hoppers, chutes, operating cyclones, vibrating lines, silos, etc., linings to protect equipment against very abrasive fine grain size products wear, due to their very nature (rock, wood, metal, all fine particle size materials, chemical products, etc.), density and hardness (medium to high), forms (fine particles, bulks), with dry conditions and maximum temperature + 70 °C. Hanging panels fostering materials cleaning and removal.

Areas of activity: sand and gravel quarries, aggregate and cement industries, concrete plants, food processing industries, etc.

### MAINTENANCE RECOMMENDATION

Always follow manufacturer warnings and instructions when using any cleaning product.

[www.trelleborg.com/elastomerlaminates](http://www.trelleborg.com/elastomerlaminates)

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

MECHANICAL	Measured characteristics	Standard	Value
	Rubber compound		NR R320
	Density		0.95 ± 0.05 g/cm <sup>3</sup>
	Hardness	ASTM D2240	40 ± 5 Shore A
	Tensile strength	ISO 37	≥ 20 MPa
	Elongation at break	ISO 37	≥ 600 %
	Tear resistance	ISO 34-1	≥ 32 N/mm
	Abrasion resistance (5 N)	ISO 4649	≤ 110 mm <sup>3</sup>
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 25 %

TEMPERATURE	Working temperature	- 40/+ 80 °C
-------------	---------------------	--------------

AGEING	Δ Hardness after 168 h at 70 °C	ASTM D573	≤ 5 Shore A
	Δ Tensile strength after 168 h at 70 °C	ASTM D573	≤ - 20 %
	Δ Elongation at break after 168 h at 70 °C	ASTM D573	≤ - 50 %

CHEMICAL RESISTANCE		Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
		Good	Medium	Medium	Non suitable

DIMENSIONS							
Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m <sup>2</sup> )	Pattern
2	± 0.3	1400	± 2 %	15	± 2 %	1.90	2 sides matt
3	± 0.3	1400	± 2 %	10	± 2 %	2.85	2 sides matt
4	± 0.4	1400	± 2 %	10	± 2 %	3.80	2 sides matt
5	± 0.4	1500	± 2 %	6	± 2 %	4.75	2 sides matt
6	± 0.5	1500	± 2 %	6	± 2 %	5.70	2 sides matt
8	± 0.7	1500	± 2 %	6	± 2 %	7.60	2 sides matt
10	± 1.0	1500	± 2 %	6	± 2 %	9.50	2 sides matt
12	± 1.0	1500	± 2 %	6	± 2 %	11.40	2 sides matt

IDENTIFICATION	
Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
Wrapping	White 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.