



REDEFINE NR

red | density 1.05 | hardness 45

03/07/2014

MEDIUM WEAR SHEETING: FINE GRAIN SIZE MATERIAL

FEATURES

Wear resistant natural rubber, red.

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
- ▶ Safety
- ▶ Reliability
- ▶ 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, etc.), with dry conditions and maximum temperature + 70 °C.

Manufacturing of rubber skirts.

Hanging panels fostering materials cleaning and removal.

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

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

MECHANICAL	Measured characteristics	Standard	Value
	Rubber compound		NR R492
	Density		1.05 ± 0.05 g/cm ³
	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	≤ 83 mm ³
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 30 %

TEMPERATURE

Working temperature	- 40/+ 85 °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	Options (bonding layer)
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	BL
8	± 0.7	1400	± 2 %	10	± 2 %	8.40	2 smooth sides	BL
10	± 1.0	1400	± 2 %	10	± 2 %	10.50	2 smooth sides	BL
12	± 1.0	1400	± 2 %	5	± 2 %	12.60	2 smooth sides	BL
15	± 1.0	1400	± 2 %	5	± 2 %	15.75	2 smooth sides	BL
20	± 1.4	1400	± 2 %	5	± 2 %	21.00	2 smooth sides	BL

IDENTIFICATION

Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll. Bonding layer internal side protected by a white polypropylene film, easily removable by hand.
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.