

REDEFINE + NR

16/07/2014



HIGH 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.
- Great flexibility and resilience
- 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
- Economy: reduce downtime and maintenance costs
- Long service life: lower hourly costs
- Safety
- Reliability

APPLICATIONS


Hoppers, chutes, operating cyclones, hydrocyclones, vibrating lines, extraction pump bodies, tanks, 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.

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

	Measured characteristics	Standard	Value
MECHANICAL			
	<i>Rubber compound - red</i>		NR R397 
	<i>Density</i>		0.95 ± 0.05 g/cm ³
	<i>Hardness</i>	ASTM D2240	35 ± 5 Shore A
	<i>Tensile strength</i>	ISO 37	≥ 24 MPa
	<i>Elongation at break</i>	ISO 37	≥ 700 %
	<i>Tear resistance</i>	ISO 34-1	≥ 30 N/mm
	<i>Abrasion resistance (5 N)</i>	ISO 4649	≤ 60 mm ³
	<i>Compression set after 22 h at 70 °C</i>	ISO 815-1	≤ 30 %
TEMPERATURE			
	<i>Working temperature</i>		- 40/+ 80 °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>
Good	Medium	Medium	Non suitable

DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m ²)	Sides finish	Options (bonding layer)
3	± 0.3	1400	± 2 %	10	± 2 %	2.85	2 smooth sides	
4	± 0.4	1400	± 2 %	10	± 2 %	3.80	2 smooth sides	
5	± 0.4	1500	± 2 %	6	± 2 %	4.75	2 smooth sides	
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	
15	± 1.0	1500	± 2 %	6	± 2 %	14.25	2 sides matt	
20	± 1.4	1500	± 2 %	6	± 2 %	19.00	2 sides matt	
25	± 1.75	1500	± 2 %	6	± 2 %	23.75	2 sides matt	

IDENTIFICATION

<i>Branding</i>	Without.
<i>Packaging</i>	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.
<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.