



BLACKFINE NR

black | density 1.00 | hardness 38

03/07/2014

MEDIUM WEAR SHEETING: FINE GRAIN SIZE MATERIAL

FEATURES

Wear resistant natural rubber, black.

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), 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

	Measured characteristics	Standard	Value	
MECHANICAL				
	Rubber compound		NR R353	
	Density		1.00 ± 0.05	g/cm ³
	Hardness	ASTM D2240	38 ± 5	Shore A
	Tensile strength	ISO 37	≥ 20	MPa
	Elongation at break	ISO 37	≥ 650	%
	Tear resistance	ISO 34-1	≥ 20	N/mm
	Abrasion resistance (5 N)	ISO 4649	≤ 80	mm ³
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 25	%

TEMPERATURE				
	Working temperature		- 40/+ 90	°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	≤ - 15	%
	Δ Elongation at break after 168 h at 70 °C	ASTM D573	≤ - 25	%

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

DIMENSIONS							
Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m ²)	Pattern
2	± 0.3	1400	± 2 %	15	± 2 %	2.00	2 smooth sides
3	± 0.3	1400	± 2 %	10	± 2 %	3.00	2 smooth sides
4	± 0.4	1400	± 2 %	10	± 2 %	4.00	2 smooth sides
5	± 0.4	1400	± 2 %	10	± 2 %	5.00	2 smooth sides
6	± 0.5	1400	± 2 %	10	± 2 %	6.00	2 smooth sides
8	± 0.7	1400	± 2 %	10	± 2 %	8.00	2 smooth sides
10	± 1.0	1400	± 2 %	10	± 2 %	10.00	2 smooth sides
12	± 1.0	1400	± 2 %	5	± 2 %	12.00	2 smooth sides
15	± 1.0	1400	± 2 %	5	± 2 %	15.00	2 smooth sides
20	± 1.4	1400	± 2 %	5	± 2 %	20.00	2 smooth sides
25	± 1.75	1400	± 2 %	5	± 2 %	25.00	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 m ² , nominal weight, and product code to allow product traceability.