



BLACKROCK⁺ NR

black | density 1.12 | hardness 60

03/07/2014

HIGH WEAR SHEETING: ROUND GRAIN MATERIAL



FEATURES

Natural rubber, black, 60 Shore A, with very good abrasion resistance.

ADVANTAGES

- ▶ Excellent shock impact, tear, and abrasion resistance
- ▶ Good heat and ageing resistance
- ▶ Noise and vibration propagation reduction
- ▶ Protection against corrosion
- ▶ Possibility to be produced with bonding layer for cold vulcanizing or with steel backing for mechanical fixing
- ▶ Very high performance at low temperature

BENEFITS

- ▶ Performance
- ▶ Reliability
- ▶ Economy: reduce downtime and maintenance costs
- ▶ Long service life: lower hourly costs
- ▶ Safety

APPLICATIONS

Hoppers, chutes, vibrating lines, truck boxes, etc., linings to protect equipment, especially at loading and unloading points, against very abrasive products, due to their very nature (very abrasive rocks, wood, chemical products, etc.), density and hardness (medium to high), shapes (salient, sharp-edged), large grain size, with dry or wet conditions and maximum temperature + 70 °C.

Areas of activity: sand and gravel quarries, glassworks, construction and public works, civil engineering, building materials, mechanical engineering, transport, etc.

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	Rubber compound		NR R650	
	Density		1.12 ± 0.05	g/cm ³
	Hardness	ASTM D2240	60 ± 5	Shore A
	Tensile strength	ISO 37	≥ 18	MPa
	Elongation at break	ISO 37	≥ 400	%
	Tear resistance	ISO 34-1	≥ 50	N/mm
	Abrasion resistance (10 N)	ISO 4649	≤ 90	mm ³
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 30	%
TEMPERATURE				
	Working temperature		- 50/+ 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	Good	Non suitable

DIMENSIONS

Thickness (mm)		Width (mm)		Length (m)		Weight (kg/m ²)	Pattern	Option (bonding layer)
4	± 0.4	1400	± 2 %	10	± 2 %	4.48	2 smooth sides	BL
5	± 0.4	1400	± 2 %	10	± 2 %	5.60	2 smooth sides	BL
6	± 0.5	1400	± 2 %	10	± 2 %	6.72	2 smooth sides	BL
8	± 0.7	1400	± 2 %	10	± 2 %	8.96	2 smooth sides	BL
10	± 1.0	1400	± 2 %	10	± 2 %	11.20	2 smooth sides	BL
12	± 1.0	1400	± 2 %	5	± 2 %	13.44	2 smooth sides	BL
15	± 1.0	1400	± 2 %	5	± 2 %	16.80	2 smooth sides	BL
20	± 1.4	1400	± 2 %	5	± 2 %	22.40	2 smooth sides	BL
25	± 1.75	1400	± 2 %	5	± 2 %	28.00	2 smooth sides	

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.