

BLACKROCK + NR

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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 - black		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)	Sides finish	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.