

BLACKROCK NR

16/07/2014



MEDIUM WEAR SHEETING: ROUND GRAIN MATERIAL

FEATURES

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

ADVANTAGES

- Good shock impact, tear, and abrasion resistance
- Good heat and ageing resistance
- Noise and vibration propagation reduction
- Protection against corrosion
- Good ratio quality/price
- Possibility to be produced with bonding layer for cold vulcanizing or with steel backing for mechanical fixing

BENEFITS

- Reliability
- Economy
- Safety

APPLICATIONS

Hoppers, chutes, etc., linings to protect equipment subject to medium wear due to working conditions (for example, moisture), composition (for example, high percentage of fine grain size products), shape or nature of the products.

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

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	Rubber compound - black		NR R698	
	Density		1.21 ± 0.05	g/cm ³
	Hardness	ASTM D2240	60 ± 5	Shore A
	Tensile strength	ISO 37	≥ 15	MPa
	Elongation at break	ISO 37	≥ 400	%
	Tear resistance	ISO 34-1	≥ 40	N/mm
	Abrasion resistance (10 N)	ISO 4649	≤ 130	mm ³
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 35	%
TEMPERATURE				
	Working temperature		- 40/+ 85	°C
AGEING				
	Δ Hardness after 70 h at 70 °C	ASTM D573	≤ 5	Shore A
	Δ Tensile strength 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
Good	Medium	Medium	Non suitable

DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Sides finish	Option (bonding layer)	
1	± 0.3	1400 ± 2 %	20 ± 2 %	1.21	2 smooth sides	
1.5	± 0.3	1400 ± 2 %	15 ± 2 %	1.82	2 smooth sides	
2	± 0.3	1400 ± 2 %	15 ± 2 %	2.42	2 smooth sides	
3	± 0.3	1400 ± 2 %	10 ± 2 %	3.63	2 smooth sides	
4	± 0.4	1400 ± 2 %	10 ± 2 %	4.84	2 smooth sides	
5	± 0.4	1400 ± 2 %	10 ± 2 %	6.05	2 smooth sides	
6	± 0.5	1500 ± 2 %	10 ± 2 %	7.26	2 sides matt	
8	± 0.7	1500 ± 2 %	10 ± 2 %	9.68	2 sides matt	
10	± 1.0	1500 ± 2 %	10 ± 2 %	12.10	2 sides matt	
12	± 1.0	1500 ± 2 %	6 ± 2 %	14.52	2 sides matt	
15	± 1.0	1500 ± 2 %	6 ± 2 %	18.15	2 sides matt	
20	± 1.4	1500 ± 2 %	6 ± 2 %	24.20	2 sides matt	
25	± 1.75	1500 ± 2 %	6 ± 2 %	30.25	2 sides matt	

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.