

ARMURITE NR

16/07/2014



HIGH WEAR SHEETING: CRUSHED MATERIAL

FEATURES

Very high mechanical properties with an excellent tear resistance.

ADVANTAGES

- Excellent shock impact and cut resistance against large grain size products: blocks, masses, etc.
- Protection against corrosion
- Antistatic sheeting
- 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
- Reliability
- 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, steel industry, foundries, metal industry, aggregate and cement industries, concrete plants, sawmills.

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
MECHANICAL				
Rubber compound - black			NR RF20	
Density			1.12 ± 0.05	g/cm ³
Hardness		ASTM D2240	65 ± 5	Shore A
Tensile strength		ISO 37	≥ 25	MPa
Elongation at break		ISO 37	≥ 400	%
Tear resistance		ISO 34-1	≥ 70	N/mm
Abrasion resistance (10 N)		ISO 4649	≤ 100	mm ³
Compression set after 22 h at 70 °C		ISO 815-1	≤ 20	%
TEMPERATURE				
Working temperature			- 40/+ 70	°C
AGEING				
Δ Tensile strenght after 168 h at 70 °C		ASTM D573	≤ - 20	%
Δ Elongation at break after 168 h at 70 °C		ASTM D573	≤ - 30	%
Ozone resistance, 50 pphm, 4 h, 30 °C, 20 %		ISO 1431-1 method A	No crack	
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)
5	± 0.4	1500	± 2 %	10	± 2 %	5.60	1 side matt/1 side cloth finish	
6	± 0.5	1500	± 2 %	10	± 2 %	6.72	1 side matt/1 side cloth finish	
8	± 0.7	1500	± 2 %	10	± 2 %	8.96	1 side matt/1 side cloth finish	BL
10	± 1.0	1500	± 2 %	10	± 2 %	11.20	1 side matt/1 side cloth finish	BL
15	± 1.0	1500	± 2 %	6	± 2 %	16.80	1 side matt/1 side cloth finish	BL
20	± 1.4	1500	± 2 %	6	± 2 %	22.40	1 side matt/1 side cloth finish	BL

IDENTIFICATION

Branding	ARMURITE.
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.