BLACKFINE NR

16/07/2014

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.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics	Standard	Value	
MECHANICAL			
Rubber compound - black		NR R353	●
Density		1.00 ± 0.05	g/cm³
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	mm³
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 strenght 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/m²)*	*Sides finish*
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 m², nominal weight, and product code to allow product traceability.