WHITEFINE NR

16/07/2014

MEDIUM WEAR SHEETING: FOOD QUALITY

FEATURES
Wear resistant natural rubber, white, food grade, meeting regulation (EC) 1935/2004 (European legislation) and FDA classification (American legislation).

REGULATIONS
- Meeting european regulations (EC) n° 1935/2004 and 2023/2006
- The material is in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600 Rubber articles intended for repeated use for contact with aqueous food
- Quality certificate available under request

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
- Legality
- Food safety
- Hygiene, cleanliness
- 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. Hanging panels fostering materials cleaning and removal.
Areas of activity: sand and gravel quarries, aggregate and cement industries, concrete plants, food processing industries, etc.

MAINTENANCE RECOMMENDATION
Always follow manufacturer warnings and instructions when using any cleaning product.

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics	Standard	Value	
MECHANICAL			
Rubber compound - white		NR R320	◯
Density		0.95 ± 0.05	g/cm³
Hardness	ASTM D2240	40 ± 5	Shore A
Tensile strength	ISO 37	≥ 20	MPa
Elongation at break	ISO 37	≥ 600	%
Tear resistance	ISO 34-1	≥ 32	N/mm
Abrasion resistance (5 N)	ISO 4649	≤ 110	mm³
Compression set after 22 h at 70 °C	ISO 815-1	≤ 25	%
TEMPERATURE			
Working temperature		- 40/+ 80	°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	≤ - 20	%
Δ Elongation at break after 168 h at 70 °C	ASTM D573	≤ - 50	%

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/m²)*	*Sides finish*
2	± 0.3	1400	± 2 %	15	± 2 %	1.90	2 sides matt
3	± 0.3	1400	± 2 %	10	± 2 %	2.85	2 sides matt
4	± 0.4	1400	± 2 %	10	± 2 %	3.80	2 sides matt
5	± 0.4	1500	± 2 %	6	± 2 %	4.75	2 sides matt
6	± 0.5	1500	± 2 %	6	± 2 %	5.70	2 sides matt
8	± 0.7	1500	± 2 %	6	± 2 %	7.60	2 sides matt
10	± 1.0	1500	± 2 %	6	± 2 %	9.50	2 sides matt
12	± 1.0	1500	± 2 %	6	± 2 %	11.40	2 sides matt

IDENTIFICATION

Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll.
Wrapping	White polyethylene film.
Labelling	Self-adhesive label indicating product name, dimensions, area in m², nominal weight, and product code to allow product traceability.