E527
EPDM



EPDM SHEETING
FIRE RESISTANT

FEATURES
High performance EPDM sheeting. Fire resistant with low and not toxic smoke emission. Halogen-free.

REGULATIONS
- Classified as HL3 R22, R23 & R24 according to European EN-45545-2 2013 regulation.

APPLICATIONS
Pieces, gaskets, covering and other elements subjetc to risk of fire. Specially for railways vehicles material.

ADVANTAGES
- Very good fire resistance
- Low smoke emission. Halogen-free
- Excellent ozone resistance
- Good ageing resistance
- Very good heat resistance
- Matte finish to guarantee a good surface finished quality and to secure an easy unrolling.

BENEFITS
- Performance
- Service life
- Safety

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics	Standard	Value	
MECHANICAL			
Rubber compound - black		EPDM	l
Density		1.45 ±0.05	g/cm³
Hardness	ASTM D2240	70 ±5	Shore A
Tensile strength	ISO 37	≥7	MPa
Elongation at break	ISO 37	≥400	%
Tear resistance	ISO 34-1	≥25	N/mm
Compression set after 72 at 23 °C	ISO 815-1	30	%
TEMPERATURE			
Working temperature		-30/+100	°C
AGEING			
Δ Hardness after 168h at 85 °C	ASTM D573	≤10	Shore A
Δ Tensile strength after 168h at 85 °C	ASTM D573	≤-15	%
Δ Elongation at break after 168h at 85 °C	ASTM D573	≤-30	%
Ozone resistance, 200pphm, 96h, 40 °C, 20%	ASTM D1149 type A	No crack	

CHEMICAL RESISTANCE

Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
Good	Medium	Very good	Medium

IDENTIFICATION

Branding	Without.
Packaging	Thickness ≤6mm rolled on cardboard tube Ø 80mm. Thickness >6mm 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.

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THICKNESS mm	WIDTH mm	LENGTH m	WEIGHT kg/m²	SIDES FINISH
1 ±0.3	1400 ± 2 %	20 ± 2 %	1.45	2 sides matt
2 ±0.3	1400 ± 2 %	15 ± 2 %	3.35	2 sides matt
3 ±0.3	1400 ± 2 %	10 ± 2 %	5.02	2 sides matt
4 ±0.4	1400 ± 2 %	10 ± 2 %	6.7	2 sides matt
5 ±0.4	1400 ± 2 %	10 ± 2 %	8.37	1 side smooth/1 side matt
6 ±0.5	1400 ± 2 %	10 ± 2 %	10.05	1 side smooth/1 side matt
8 ±0.7	1400 ± 2 %	5 ± 2 %	13.4	1 side smooth/1 side matt
10 ±1.0	1400 ± 2 %	5 ± 2 %	16.75	1 side smooth/1 side matt
12 ±1.0	1400 ± 2 %	5 ± 2 %	20.1	1 side smooth/1 side matt
15 ±1.0	1400 ± 2 %	5 ± 2 %	25.12	1 side smooth/1 side matt

TRELLEBORG