

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 + A1:2016 regulation.

APPLICATIONS

Pieces, gaskets, covering and other industrial elements subject 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	I
Density			1.45 ±0.05	g/cm ³
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 22h at 85 °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 m ² , nominal weight, and product code to allow product traceability.

Unless typographical error, information and figures of our technical datasheet are based on our experience and laboratory tests according to international standards. This data is intended to be used as a guideline only. Material performance depends on the conditions of use and the final application.

EPDM		EPDM SHEETING		E527	
THICKNESS mm	WIDTH mm	LENGTH m	WEIGHT kg/m ²	SIDES FINISH	
1±0.2	1400±2%	20±2%	1.45	1 SIDE SMOOTH/1 SIDE MATT	
2±0.3	1400±2%	15±2%	3.35	1 SIDE SMOOTH/1 SIDE MATT	
3±0.3	1400±2%	10±2%	5.02	1 SIDE SMOOTH/1 SIDE MATT	
4±0.4	1400±2%	10±2%	6.7	1 SIDE SMOOTH/1 SIDE 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	

