

# 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 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	
<b>MECHANICAL</b>				
Rubber compound - black			EPDM	I
Density			1.45 ±0.05	g/cm <sup>3</sup>
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	%
<b>TEMPERATURE</b>				
Working temperature			-30/+100	°C
<b>AGEING</b>				
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	
<b>CHEMICAL RESISTANCE</b>				
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 <sup>2</sup> , nominal weight, and product code to allow product traceability.

EPDM		EPDM SHEETING		E527	
THICKNESS mm	WIDTH mm	LENGTH m	WEIGHT kg/m <sup>2</sup>	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	
15±1.0	1400±2%	5±2%	25.12	1 SIDE SMOOTH/1 SIDE MATT	

