

# 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 R22 HL1, R23 HL1 & HL2 according to European EN-45545-2 2013 regulation.

### APPLICATIONS

Pieces, gaskets, covering and other elements subje 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, to secure an easy unrolling, and to facilitate adhesive bonding processes

### BENEFITS

- Performance
- Service life
- Safety

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
MECHANICAL				
Rubber compound - black			EPDM	
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
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.			

Thickness mm		Width mm		Length m		Weight kg/m²	Sides finish
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