



# E527

# EPDM



## EPDM SHEETING FIRE RESISTANT

### FEATURES

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

### REGULATIONS

<sup>1</sup> 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

- <sup>1</sup> Very good fire resistance
- <sup>1</sup> Low smoke emission. Halogen-free
- <sup>1</sup> Excellent ozone resistance
- <sup>1</sup> Good ageing resistance
- <sup>1</sup> Very good heat resistance
- <sup>1</sup> Matte finish to guarantee a good surface finished quality and to secure an easy unrolling.

### BENEFITS

- <sup>1</sup> Performance
- <sup>1</sup> Service life
- <sup>1</sup> Safety

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

| Measured characteristics |                                            | Standard          | Value      |         |
|--------------------------|--------------------------------------------|-------------------|------------|---------|
| MECHANICAL               |                                            |                   |            |         |
| Rubber compound - black  |                                            |                   | EPDM       | 1       |
|                          | 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 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.<br>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. |

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<br>mm |  | WIDTH<br>mm   |  | LENGTH<br>m |  | WEIGHT<br>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 |

