

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 | |

