

ES01 EPDM

black | density 1.31 | hardness 70

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EPDM 70 SHEETING: FOR TECHNICAL APPLICATIONS

FEATURES

70 Shore A EPDM.

ADVANTAGES

- ▶ Very good resistance to ozone and ageing
- ▶ Excellent temperature resistance (- 40/+ 120 °C)
- ▶ Excellent resistance to most inorganic or corrosive chemical products
- ▶ Highly resistant to mineral acids, detergents, phosphoric ethers, ketones, alcohols, or low molecular weight glycols
- ▶ Very good performance with hot water or high pressure steam
- ▶ Good mechanical properties
- ▶ Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

BENEFITS

- ▶ Service life
- ▶ Performance
- ▶ Safety

APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with water, oxidizing and non oxidizing diluted acids.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

| Measured characteristics | | Standard | Value | |
|--|-------------------------------------|-------------------|------------------------------|-------------------|
| MECHANICAL | | | | |
| <i>Rubber compound</i> | | | EPDM | |
| <i>Density</i> | | | 1.31 ± 0.05 | g/cm ³ |
| <i>Hardness</i> | | ASTM D2240 | 70 ± 5 | Shore A |
| <i>Tensile strength</i> | | ISO 37 | ≥ 7 | MPa |
| <i>Elongation at break</i> | | ISO 37 | ≥ 300 | % |
| <i>Tear resistance</i> | | ISO 34-1 | ≥ 20 | N/mm |
| <i>Compression set after 22 h at 70 °C</i> | | ISO 815-1 | ≤ 30 | % |
| TEMPERATURE | | | | |
| <i>Working temperature</i> | | | - 40/+ 120 | °C |
| AGEING | | | | |
| <i>Δ Hardness after 70 h at 70 °C</i> | | ASTM D573 | ≤ 5 | Shore A |
| <i>Δ Tensile strenght after 70 h at 70 °C</i> | | ASTM D573 | ≤ - 15 | % |
| <i>Δ Elongation at break after 70 h at 70 °C</i> | | ASTM D573 | ≤ - 40 | % |
| <i>Ozone resistance, 200 pphm, 48 h, 38 °C, 20 %</i> | | ASTM D1149 type A | No crack | |
| CHEMICAL RESISTANCE | | | | |
| <i>Diluted acids and bases</i> | <i>Concentrated acids and bases</i> | <i>Ozone</i> | <i>Oils and hydrocarbons</i> | |
| Very good | Good | Very good | Non suitable | |

DIMENSIONS

| Thickness (mm) | | Width (mm) | | Length (m) | | Weight (kg/m ²) | Pattern |
|----------------|-------|------------|-------|------------|-------|-----------------------------|---------------------------|
| 1 | ± 0.3 | 1400 | ± 2 % | 20 | ± 2 % | 1.31 | 2 sides matt |
| 1.5 | ± 0.3 | 1400 | ± 2 % | 15 | ± 2 % | 1.97 | 2 sides matt |
| 2 | ± 0.3 | 1400 | ± 2 % | 15 | ± 2 % | 2.62 | 2 sides matt |
| 3 | ± 0.3 | 1400 | ± 2 % | 10 | ± 2 % | 3.93 | 2 sides matt |
| 4 | ± 0.4 | 1400 | ± 2 % | 10 | ± 2 % | 5.24 | 2 sides matt |
| 5 | ± 0.4 | 1400 | ± 2 % | 10 | ± 2 % | 6.55 | 2 sides matt |
| 6 | ± 0.5 | 1400 | ± 2 % | 10 | ± 2 % | 7.86 | 1 side smooth/1 side matt |
| 8 | ± 0.7 | 1400 | ± 2 % | 5 | ± 2 % | 10.48 | 1 side smooth/1 side matt |
| 10 | ± 1.0 | 1400 | ± 2 % | 5 | ± 2 % | 13.10 | 1 side smooth/1 side matt |

IDENTIFICATION

| | |
|------------------|---|
| <i>Branding</i> | Without. |
| <i>Packaging</i> | Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm in roll. |
| <i>Wrapping</i> | Black polyethylene film. |
| <i>Labelling</i> | Self-adhesive label indicating product name, dimensions, area in m ² , nominal weight, and product code to allow product traceability. |