

# ES01 EPDM

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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](http://www.trelleborg.com/elastomerlaminates)

## MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

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

### DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m <sup>2</sup> )	Sides finish
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

Branding	Without.
Packaging	Thickness ≤ 6 mm rolled on cardboard tube Ø 80 mm. Thickness > 6 mm 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.