

# E550 EPDM

black | density 1.17 | hardness 50

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## EPDM 50 SHEETING: FOR TECHNICAL APPLICATIONS

### FEATURES

50 Shore A EPDM.

### ADVANTAGES

- ▶ Very good resistance to ozone and ageing
- ▶ Excellent temperature resistance (- 40/+ 115 °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
- ▶ Very good mechanical properties, especially tear resistance
- ▶ 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>				
<i>Rubber compound</i>			EPDM	
<i>Density</i>			1.17 ± 0.05	g/cm <sup>3</sup>
<i>Hardness</i>		ASTM D2240	50 ± 5	Shore A
<i>Tensile strength</i>		ISO 37	≥ 9	MPa
<i>Elongation at break</i>		ISO 37	≥ 450	%
<i>Tear resistance</i>		ISO 34-1	≥ 23	N/mm
<i>Compression set after 22 h at 70 °C</i>		ISO 815-1	≤ 35	%
<b>TEMPERATURE</b>				
<i>Working temperature</i>			- 40/+ 115	°C
<b>AGEING</b>				
<i>Δ Hardness after 70 h at 70 °C</i>		ASTM D573	≤ 5	Shore A
<i>Δ Tensile strength 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	
<b>CHEMICAL RESISTANCE</b>				
<i>Diluted acids and bases</i>	<i>Concentrated acids and bases</i>	<i>Ozone</i>	<i>Oils and hydrocarbons</i>	
<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> )	Pattern
2	± 0.3	1400	± 2 %	15	± 2 %	2.34	2 sides matt
3	± 0.3	1400	± 2 %	10	± 2 %	3.51	2 sides matt
4	± 0.4	1400	± 2 %	10	± 2 %	4.68	2 sides matt
5	± 0.4	1400	± 2 %	10	± 2 %	5.85	2 sides matt
6	± 0.5	1400	± 2 %	10	± 2 %	7.02	1 side smooth/1 side matt
8	± 0.7	1400	± 2 %	5	± 2 %	9.36	1 side smooth/1 side matt
10	± 1.0	1400	± 2 %	5	± 2 %	11.70	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 <sup>2</sup> , nominal weight, and product code to allow product traceability.