

E550 EPDM

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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.

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MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value
MECHANICAL			
	Rubber compound - black		EPDM 
	Density		1.17 ± 0.05 g/cm ³
	Hardness	ASTM D2240	50 ± 5 Shore A
	Tensile strength	ISO 37	≥ 9 MPa
	Elongation at break	ISO 37	≥ 450 %
	Tear resistance	ISO 34-1	≥ 23 N/mm
	Compression set after 22 h at 70 °C	ISO 815-1	≤ 35 %
TEMPERATURE			
	Working temperature		- 40/+ 115 °C
AGEING			
	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
CHEMICAL RESISTANCE			
Diluted acids and bases	Concentrated acids and bases	Ozone	Oils and hydrocarbons
Very good	Good	Very good	Non suitable

DIMENSIONS

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

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 ² , nominal weight, and product code to allow product traceability.