

ES03 EPDM

black | density 1.24 | hardness 70

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EPDM SHEETING: HIGH TEMPERATURE

FEATURES

Peroxyde cured EPDM with high mechanical properties, especially at high temperature.

ADVANTAGES

- ▶ Very good resistance to ozone and ageing
- ▶ Excellent temperature resistance (- 40/+ 125 °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
- ▶ Excellent mechanical properties, even at high temperature
- ▶ 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				
<i>Rubber compound</i>			EPDM	
<i>Density</i>			1.24 ± 0.05	g/cm ³
<i>Hardness</i>		ASTM D2240	70 ± 5	Shore A
<i>Tensile strength</i>		ISO 37	≥ 10	MPa
<i>Elongation at break</i>		ISO 37	≥ 200	%
<i>Compression set after 22 h at 125 °C</i>		ISO 815-1	≤ 20	%
TEMPERATURE				
<i>Working temperature</i>			- 40/+ 125	°C
AGEING				
<i>Δ Hardness after 72 h at 125 °C</i>		ASTM D573	≤ 5	Shore A
<i>Δ Tensile strenght after 72 h at 125 °C</i>		ASTM D573	≤ - 15	%
<i>Δ Elongation at break after 72 h at 125 °C</i>		ASTM D573	≤ - 25	%
<i>Ozone resistance, 200 pphm, 96 h, 30 °C, 80 %</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 %	1.24	2 sides matt
1.5	± 0.3	1400 ± 2 %	15 ± 2 %	1.86	2 sides matt
2	± 0.3	1400 ± 2 %	15 ± 2 %	2.48	2 sides matt
3	± 0.3	1400 ± 2 %	10 ± 2 %	3.72	2 sides matt
4	± 0.4	1400 ± 2 %	10 ± 2 %	4.96	2 sides matt
5	± 0.4	1400 ± 2 %	10 ± 2 %	6.20	2 sides matt
6	± 0.5	1400 ± 2 %	10 ± 2 %	7.44	1 side smooth/1 side matt
8	± 0.7	1400 ± 2 %	5 ± 2 %	9.92	1 side smooth/1 side matt
10	± 1.0	1400 ± 2 %	5 ± 2 %	12.40	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.