

E569 EPDM

16/07/2014



WHITE EPDM SHEETING: FOOD QUALITY

FEATURES

EPDM, white, food grade, meeting regulation (EC) 1935/2004 (European legislation) and FDA classification (American legislation).

REGULATIONS

- Meeting european regulations (EC) n° 1935/2004 and 2023/2006
- The material is in compliance with FDA 21 CFR Part. 177. Indirect Food Additives: Polymers. Sec 177.2600 Rubber articles intended for repeated use for contact with aqueous food
- Quality certificate available under request

ADVANTAGES

- Very good resistance to ozone and ageing
- Excellent temperature resistance (- 40/+ 115 °C)
- Good ratio quality/price
- Matte finish to guarantee a good surface finished quality, to secure an easy unrolling, and to facilitate adhesive bonding processes

BENEFITS

- Performance
- Legality
- Hygiene, cleanliness
- Food safety

APPLICATIONS

Gaskets or washers cutting and manufacturing of pieces for general purpose applications in contact with:

- foodstuffs
- water (maximum temperature + 100 °C)
- oxidizing and non oxidizing diluted acids

Non suitable for contact with oil or vegetable fats.

MAINTENANCE RECOMMENDATION

Always follow manufacturer warnings and instructions when using any cleaning product.

www.trelleborg.com/elastomerlaminates

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

	Measured characteristics	Standard	Value	
MECHANICAL				
	<i>Rubber compound - white</i>		EPDM	○
	<i>Density</i>		1.27 ± 0.05	g/cm ³
	<i>Hardness</i>	ASTM D2240	60 ± 5	Shore A
	<i>Tensile strength</i>	ISO 37	≥ 8	MPa
	<i>Elongation at break</i>	ISO 37	≥ 350	%
	<i>Tear resistance</i>	ISO 34-1	≥ 18	N/mm
	<i>Compression set after 22 h at 70 °C</i>	ISO 815-1	≤ 40	%
TEMPERATURE				
	<i>Working temperature</i>		- 40/+ 115	°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)	Sides finish
1	± 0.3	1400 ± 2 %	20 ± 2 %	1.27	2 sides matt
1.5	± 0.3	1400 ± 2 %	15 ± 2 %	1.91	2 sides matt
2	± 0.3	1400 ± 2 %	15 ± 2 %	2.54	2 sides matt
3	± 0.3	1400 ± 2 %	10 ± 2 %	3.81	2 sides matt
4	± 0.4	1400 ± 2 %	10 ± 2 %	5.08	2 sides matt
5	± 0.4	1400 ± 2 %	10 ± 2 %	6.35	2 sides matt
6	± 0.5	1400 ± 2 %	10 ± 2 %	7.62	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>	White 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.