

EF51 EPDM

black | density 1.30 | hardness 65

03/07/2014

EPDM SHEETING: STANDARD LEVEL QUALITY

FEATURES

Standard EPDM.

ADVANTAGES

- ▶ Very good resistance to ozone
- ▶ Good ageing resistance
- ▶ Good temperature resistance
- ▶ Good ratio quality/price

BENEFITS

- ▶ Service life
- ▶ Economy

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

MECHANICAL, PHYSICAL AND CHEMICAL PROPERTIES

Measured characteristics		Standard	Value	
MECHANICAL				
<i>Rubber compound</i>			EPDM	
<i>Density</i>			1.30 ± 0.05	g/cm ³
<i>Hardness</i>		ASTM D2240	65 ± 5	Shore A
<i>Tensile strength</i>		ISO 37	≥ 5	MPa
<i>Elongation at break</i>		ISO 37	≥ 200	%
<i>Tear resistance</i>		ISO 34-1	≥ 20	N/mm
<i>Compression set after 22 h at 70 °C</i>		ISO 815-1	≤ 40	%
<i>Compression set after 22 h at 100 °C</i>		ISO 815-1	≤ 60	%
TEMPERATURE				
<i>Working temperature</i>			-25/+120	°C
AGEING				
<i>Δ Tensile strength after 70 h at 70 °C</i>		ASTM D573	≤ -30	%
<i>Δ Elongation at break after 70 h at 70 °C</i>		ASTM D573	≤ -50	%
<i>Ozone resistance, 200 pphm, 48 h, 40 °C, 20 %</i>		ISO 1431-1 method 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		Medium	Very good	Non suitable

DIMENSIONS

Thickness (mm)	Width (mm)	Length (m)	Weight (kg/m ²)	Pattern	
1	± 0.3	1400 ± 2 %	20 ± 2 %	1.30	2 smooth sides
1.5	± 0.3	1400 ± 2 %	15 ± 2 %	1.95	2 smooth sides
2	± 0.3	1400 ± 2 %	15 ± 2 %	2.60	2 smooth sides
3	± 0.3	1400 ± 2 %	10 ± 2 %	3.90	2 smooth sides
4	± 0.4	1400 ± 2 %	10 ± 2 %	5.20	2 smooth sides
5	± 0.4	1400 ± 2 %	10 ± 2 %	6.50	2 smooth sides
6	± 0.5	1400 ± 2 %	10 ± 2 %	7.80	2 smooth sides
8	± 0.7	1400 ± 2 %	5 ± 2 %	10.40	2 smooth sides
10	± 1.0	1400 ± 2 %	5 ± 2 %	13.00	2 smooth sides
12	± 1.0	1400 ± 2 %	5 ± 2 %	15.60	2 smooth sides
15	± 1.0	1400 ± 2 %	5 ± 2 %	19.50	2 smooth sides
20	± 1.4	1400 ± 2 %	5 ± 2 %	26.00	2 smooth sides

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.