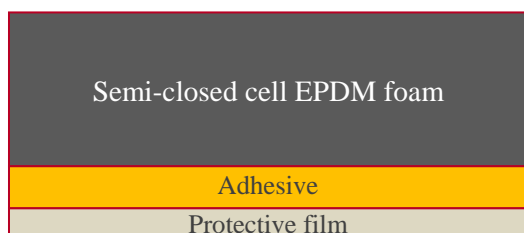


## ELASTO-SPI 686/15 FOAM

### Description

The ELASTO-SPI 686/15 is a semi-closed cell foam with great waterproof quality and mechanical properties. Semi-closed cells' structure combines the flexibility of open cells and the great impermeability of closed cells (after compression). This foam is laminated with a high-tech adhesive in order to achieve (complexe) wind, water and dust tightness, impermeability to heat. This lamination also allows noise reduction and is used to make prehension foams too.

### Structure



Width:	1,000 mm
Thickness:	15 mm
Adhesive:	On 1 side
Color:	Black

### Properties

- Semi-closed structure
- Low compressive stress<sup>(1)</sup>
- Good resistance to UV rays
- Excellent ageing
- Excellent waterproof quality

(1) About 15 times less stress than a rubber foam like the SE552 – please refer to board on page 2

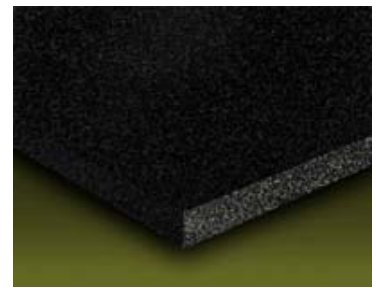


### Tariffs

**Linear metre :** 128.80 €Excl. tax (i.e 128.80 €Excl. tax/m<sup>2</sup>)

**15 metre roll :** 1062.60 €Excl. tax (i.e 70.84 €Excl. tax/m<sup>2</sup>)

**CARRIAGE COSTS ARE CALCULATED ACCORDING  
TO THE DELIVERY POINT**



## Characteristics

- Good resistance to UV rays, dampness, elevated and low temperatures, chemical agents (such as acids and alkalines)
- The foam's flexibility allows a high tightness, even with dimensional constraints due to temperature changes
- Thanks to its low compression rate, the foam won't deform the structures after assembly. Combined with Nitto high tech adhesives, the foam can be applied on a wide variety of surfaces: smooth or greasy ones, low energies, high roughness...
- Heavy metals such as cadmium or controlled substances (CFC or halogenous substances) are not used to manufacture these products. These foams can be recycled through incineration.

## Application

The Elasto-SPI foam is particularly designed to achieve waterproof quality, wind and dust and also to get significant noise reduction. Following the applications, the foam has to reach a 50% up to 80% compression rate to be fully tight.

Motor industry : air-conditioning, dashboard, air entries, shutters

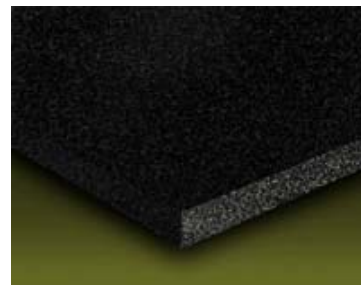
Building : external boards, solar panels

Industries : air-conditioning, mobile phones, domestic appliances

## Technical properties

	<b>Unit</b>	<b>Test</b>
<b>Density</b>	130 kg/m <sup>3</sup>	ISO 845
<b>Elongation</b>	500 %	ISO 1798
<b>Tensile strength</b>	125 kPa	ISO 1798
<b>Compressive stress (50%)</b>	6 kPa <sup>(2)</sup>	ISO 844
<b>Water absorption</b>	< 5 %	ISO 2896
<b>Flammability</b>	Compliant	FMVSS 302
<b>Ageing</b>	Excellent	
<b>Adhesion on BA steel</b>	Min 700 cN/20 mm	NITTO 15A/16A
<b>BA creep-resistant steel</b>	Max 5 mm/3h	NITTO 62A/67A

(2) 105 kPa for a closed-cell foam such as the SE552



## Chemical resistance <sup>(3)</sup>

	Tensile strength	Elongation
<b>Initial</b>	125 kPa	500%
<b>Acid (1% H<sub>2</sub>SO<sub>4</sub>)</b>	120 kPa	520%
<b>Alkaline (1% NaOH)</b>	115 kPa	495%

(3) Test condition: immersion at 20°C during 7 days

## Use temperature

-40°C up to 135°C (max 180°C)

## Tightness

Compression ratio 50-60 % : loss of water in 30 minutes

Compression ratio 70-80 % : no loss of water after 30 minutes

## Acoustic properties

Great reduction and acoustic barrier properties, especially at low frequencies (about 1 kHz)

