

## High Temperature Super Soft EPDM Sponge

### Grade

- CBF-EE1010

### Description

CBF-EE1010 is a semi-closed cell EPDM foam with excellent sealing properties. The semi-closed cell structure combines the flexibility of open cell types with the excellent sealing capabilities of closed cell types (after compression). This unique foam can be laminated with an advanced adhesive technology to seal (complex) gaps against water, wind, dust, noise, and heat.

### Characteristics

- Resistance to UV, humidity, high and low temperatures (see properties).
- The flexibility of the foam ensures that the optimal sealing performance is obtained, even with expansion or contraction of the structure caused by temperature changes.
- Due to low compression load, the foam can compensate for dimensional deviations in substrates and avoids, in common use, deformation of the structure after application.
- Combined with an advanced adhesive technology, the foam can be applied on greasy, rough, smooth, and low energy surfaces, depending on the type of substrate.
- No heavy metals (such as Cd, Pb, Hg, Cr6) and no regulated substances (such as CFC's and halogen gases) are used during the manufacturing process nor in the product itself. This product complies with the RoHS and ELV directives.

### Applications

- CBF-EE1010 is especially designed to seal (complex) gaps against water, wind, dust, noise, and heat. Depending on the applications, the foam needs to be compressed between 50-80% to activate its sealing properties.
- AUTOMOTIVE – sealing of HVAC unit, dashboard, air duct, glass run, fire wall
- BUILDING & CONSTRUCTION – sealing of exterior panel joints, solar panels
- INDUSTRIAL – sealing of air-conditioners, mobile phones, refrigerators

### Features

- Semi-closed cell structure
- Super soft/conformable
- Low compression load
- Ozone resistance
- Good weatherability
- Fungus free
- Excellent aging performance (dimensional heat stability)
- Good water sealing
- Good sound insulation

**Convertors and suppliers of die cut gaskets, tape, sheeting, fabrications, machined plastic components, rubber mouldings, extrusions and adhesives.**



## Physical

TEST	TEST METHOD	UNIT	VALUE
Thickness	ISO 1923	mm	3 to 30mm
Density	ISO 845	Kg/m3	95
Elongation	JIS K 6767	%	430
Tensile Strength	JIS K 6767	kPa	90
50% Compression load	Nitto Europe test method	kPa	5
Water absorption (50%)	Nitto Europe test method	%	3.1
Water tightness (75%)	Nitto Europe U-shape method	-	No leakage
Flammability (ref. 10mm)	FMVSS 302	mm/min.	< 100
Weatherability (after 1080 hours, 63°C, 12mm./60mm, water spray, test performed on stretched foam elongated to 30%)	Sunshine weatherometer	-	No cracks
Temperature Resistance	Dimensional stability	-	-40 to 135°C
Chemical Resistance (acid 1%H <sub>2</sub> SO <sub>4</sub> , alkaline 1%NaOH)	Immersion at 20°C for 7 days	-	Stable
Ozone Resistance (75 ppm ozone, 40°C, 30 days, 20% elongated)	Visual inspection	-	No cracks
Watertightness (65%)	Nitto U-shape method	-	No leakage

The information given above is based upon average values and is no way intended as a warranty. The purchaser is deemed responsible for determining the suitability of the product for any particular application. All data relating to suitable uses and descriptions information concerning our products are compiled from research and are believed to be reliable but are provided for guidance purposes only. The company holds no legal or contractual responsibility for information supplied.

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