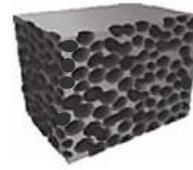


Flame-retardant NITTO EPTSEALER

EC-100 Series

Foam sealing material with superior resistance to weather, cold, heat and chemicals.



Semi-closed cell structure

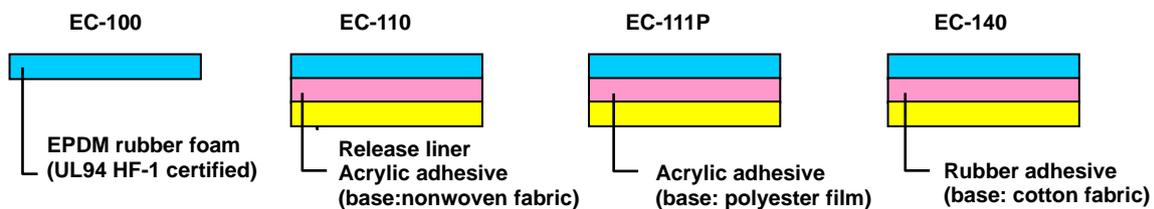
Outline

NITTO EPTSEALER EC-100 foam which have obtained UL-94 HF-1 certification are composed of a flexible foam sealing material consisting of EPDM rubber foam with a semi-closed cell structure mixed with a flame retarder. Various types with adhesive layers are available, all of which take advantage of their flexible foam properties. The products can be used for waterproofing, airtightness, soundproofing, or thermal insulation according to the compression ratio.

Features

- Containing chlorine-free flame retarder, EC-100 foam has obtained UL-94 and HF-1 certification, the most stringent standard for flame retardancy of foam.
Only foam part has UL94 HF-1 certification, certified thickness follows the UL yellow card.
- Minimal stress facilitates compression; fits snugly to uneven surfaces thereby enabling airtight sealing and soundproofing.
- Superior heat, weather, and ozone resistance enables the foam to withstand long-term use.

Structure



Standard Size

Thickness (mm)	Width (mm)	Length(m)
5~20 (EC-110 111P 140 3~25)	1000*	2

*)EC-111P is 900mm width.

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Applications

- Waterproofing, air sealing, soundproofing and

Properties

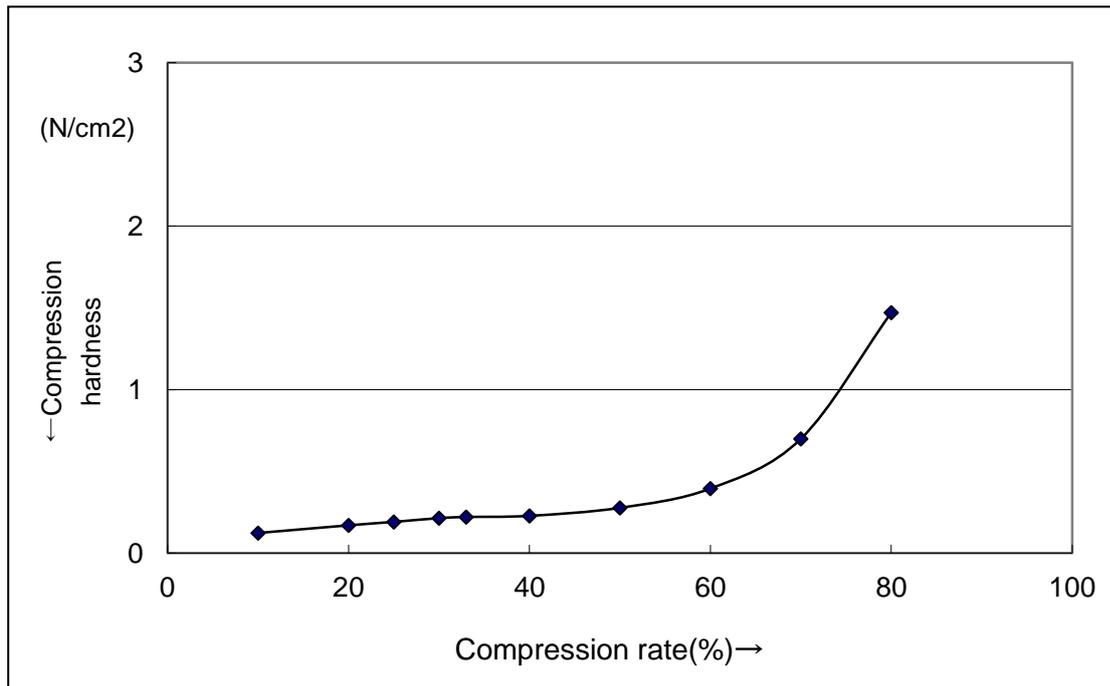
Conform to JIS K 6767

Product No.	Specific gravity (g/cm ³)	Tensile strength (N/cm ²)	Elongation (%)	Compressive hardness (N/cm ²)	
				25%	50%
EC-100 Series	0.085	7.0	270	0.18	0.28

*The above values are sample observed values, not the guaranteed performance.

● Compression Ratio vs. Compression Hardness Relations

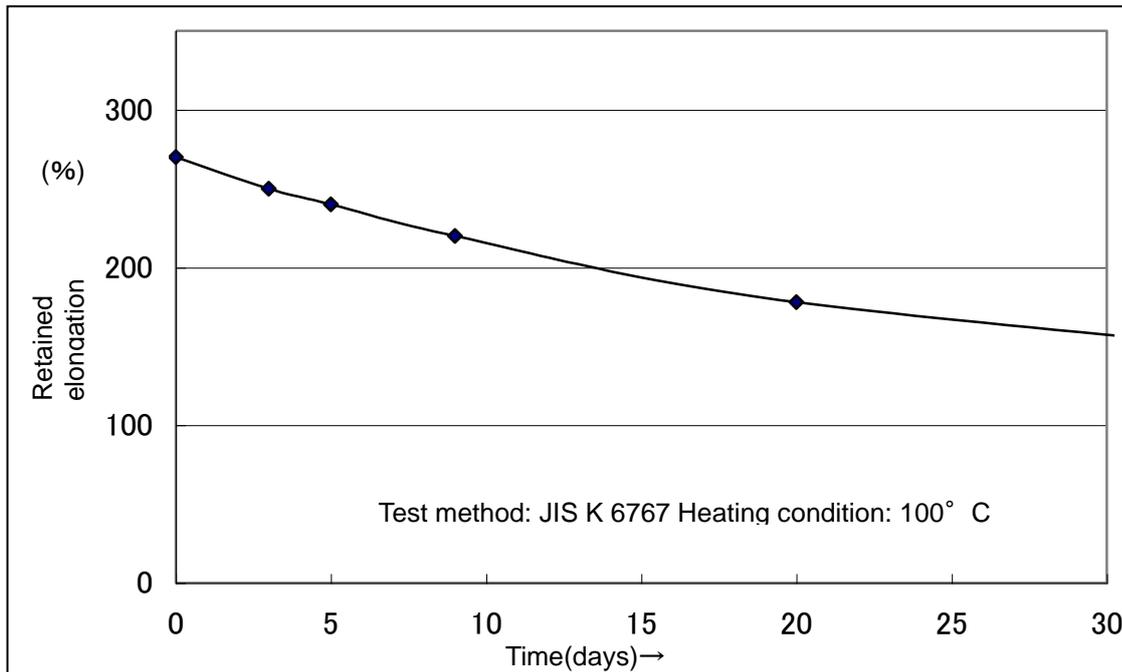
$$\text{Compression rate (\%)} = \frac{\text{thickness before compression} - \text{thickness after compression}}{\text{thickness before compression}} \times 100$$



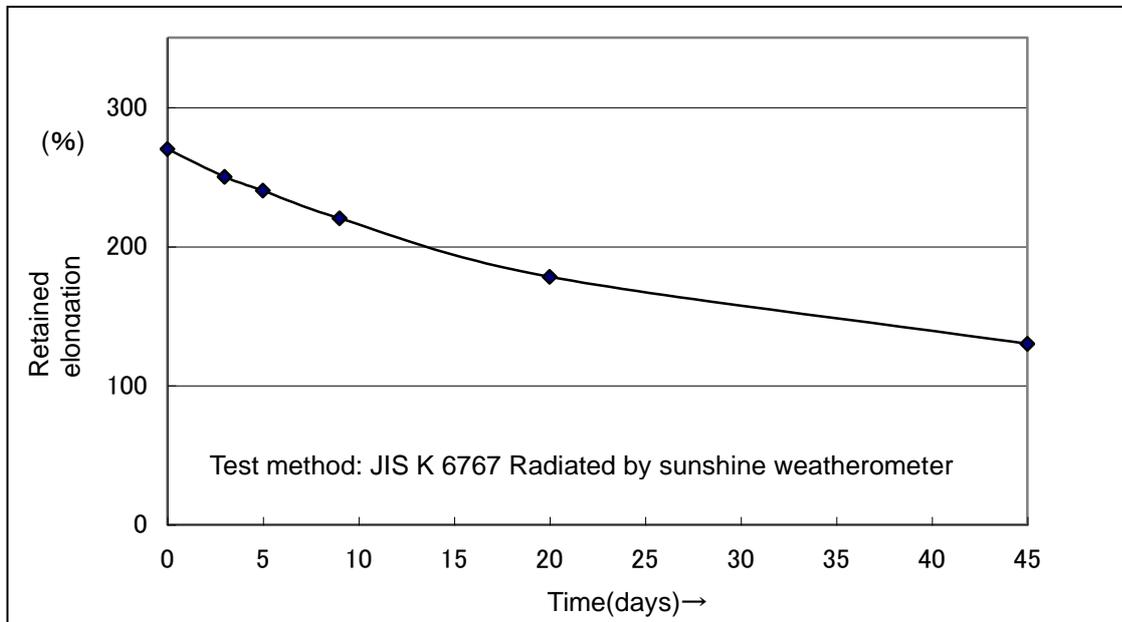
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● Heat Resistance



● Weather ability



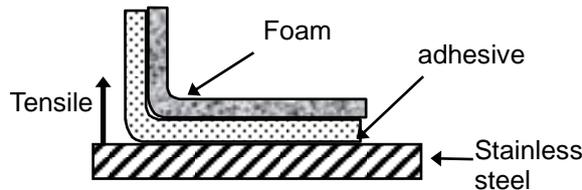
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● Peeling Adhesive

N/15mm

EC-110	EC-111P	EC-140
6.8	8.7	15.2



Test method

A 15mm wide piece of foam/tape is applied to stainless steel with a 2kg roller passed back and force once. After allowing it to set for 30minutes, adhesive strength is measured by peeling the foam/tape at a 90° angle.

Pulling rate: 300mm/min. Measurement temperature : Room temperature

Precautions

- Wipe oil, moisture, and dust off the surface of adherends thoroughly before application.
- When processing foam/synthetic resin adhesive into ribbons, make sure to cut and process it in lengthwise. If it is cut in widthwise, the tape may stretch when using.
- When processing foam/ butyl rubber adhesive into ribbons, make sure to cut and process it in lengthwise and widthwise. If it is cut diagonally, the tape may stretch when using.
- The adhesive is pressure-sensitive. Handle it with utmost care.
- Most recommended temperature for adhesion is above 10° C. (If the temperature is below 10° C (like in winter), their initial adhesive strength will be low.)
- Place the original roll of these products horizontally for storage to avoid deformation.
- Keep the products away from high temperatures and humidity, and store them in a dark cool place avoiding direct sunlight.
- The numbers in this data sheet are typical measurements in our laboratory, and not guaranteed values.
- Make sure the product is suitable for the application (objective and conditions) before attempting to use. The tape may come off depending on the substrate to which it is applied or conditions under which it is applied.

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