

Flexible
intumescent seals

GB / 1.6 / Rev. 8

FLEXILODICE®



odice
PASSIVE FIRE PROTECTION



Product description

FLEXILODICE is a graphite-based flexible and intumescent seal. When exposed to fire, the intumescent material contained in the thermoplastic support expands to at least 9 times its initial thickness.

The microporous layer formed during expansion prevents the passage of any flames, smoke or hot gases.



FLEXILODICE before and after exposure to fire.

Features



The **FLEXILODICE** intumescent seal presents the following characteristics:

- High flexibility.
- Resistant to moisture and carbon dioxide.
- Forms a robust microporous layer.
- Delivered in rolls or as custom-cut parts.
- Easy to cut.

Technical data

Physical properties of FLEXILODICE	FLEXILODICE 2 mm
Nominal thickness	2 mm
Expansion activation temperature	180°C
Foaming height (30 min. at 550°C)	9-13 times initial thickness
Expansion pressure (at 300°C)	0,35-0,65 N/mm ²
Areal weight	3,10 kg/m ²
Shore A hardness (ISO 868)	80 Shore

Average values measured by the laboratory IBMB MPA Braunschweig (Germany) and reported in European Technical Assessment ETA - 16/0299.

Self-adhesive version (ref. SA): **FLEXILODICE** can be surfaced with a self-adhesive strip to facilitate installation (specify ref. SA). This method requires the seal to be mounted in order to correctly apply the self-adhesive strip to the receiving surface.

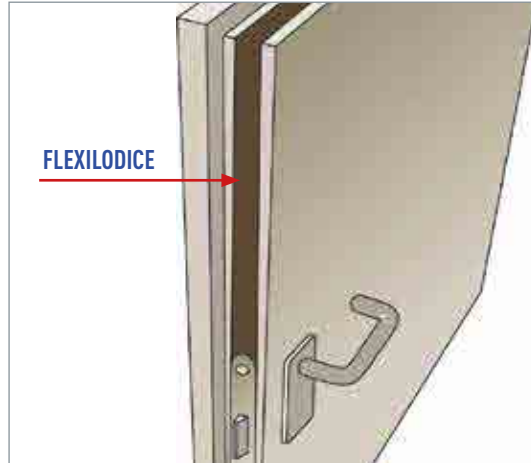
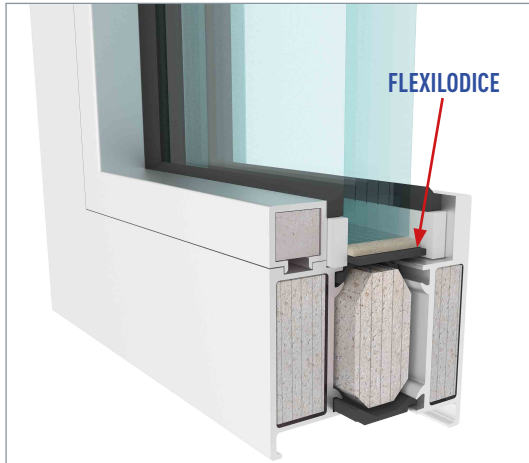
Tolerances	
Thickness (*)	+ 0,2 mm / -0,3 mm
Width	+ 0,2 mm / -0,5 mm

* On seals without self-adhesive layer

Applications

FLEXILODICE intumescent seal is designed for interior and exterior uses:

- Peripheral seals for fire resistant systems (doors, shutters, dampers, cabinets, partition walls, cable penetration systems etc.).
- Enhancement of the fire resistance of construction elements.



Example of application: fire resistant glazing system, door and frame.

Colour :

FLEXILODICE is mass dyed in black.



140 m roll	100 m roll	75 m roll
7 x 1,3 mm	8,2 x 1,9 mm	42,8 x 2,2 mm
25 x 1,3 mm	10 x 2 mm	20 x 2,5 mm
30 x 1,3 mm	12 x 2 mm	25 x 2,5 mm
15 x 1,4 mm	15 x 2 mm	31,8 x 2,5 mm
18 x 1,4 mm	18 x 2 mm	25 x 2,7 mm
20 x 1,4 mm	20 x 2 mm	10 x 3 mm
25 x 1,4 mm	24 x 2 mm	20 x 3 mm
40 x 1,4 mm	25 x 2 mm	25 x 3 mm
9,5 x 1,5 mm	28 x 2 mm	28 x 3 mm
12 x 1,5 mm	30 x 2 mm	32 x 3 mm
37 x 1,5 mm	35 x 2 mm	40 x 3 mm
50 x 1,5 mm	37 x 2 mm	50 m roll
52 x 1,5 mm	38 x 2 mm	22 x 4 mm
120 m roll	40 x 2 mm	25 x 4 mm
58 x 1,7 mm	48 x 2 mm	30 x 4 mm
22 x 1,8 mm	50 x 2 mm	50 x 4 mm
-	57 x 2 mm	-
-	60 x 2 mm	2.1 - 3 m strips
-	77 x 2 mm	22 x 6 mm
-	50 m roll	19,2 x 7,5 mm
-	100 x 2 mm	-

Product range

The manufacturing process makes it possible to supply other thicknesses, sections, special shapes and colour finishes. Please contact us.



Installation

Since the intumescent **FLEXILODICE** seal creates an average expansion pressure, for sealing a fire retardant door it is essential that they are fitted to the edge of the frame or door leaf.

In order to achieve an aesthetically acceptable installation, **FLEXILODICE**, should be fitted into a groove of the same width as the section. This groove will also serve to channel the expansion of the intumescent material. The seal can be fixed by gluing or stapling but we recommend fixing by double-sided adhesive tape. Check the compatibility with the receiving surface, which must be free from dust, grease and any kind of wax. Remove poorly adhering paint and check compatibility with the existing coat of paint.

Test before use the resistance of the adhesive according to the temperature of use and the size of the support. For more information, consult the FLEXILODICE SA Installation Instructions.

Packaging

FLEXILODICE is delivered in rolls wrapped in cardboard boxes or as pre-cut strips.

Storage

Store in a dry well-ventilated area at room temperature ($20^{\circ}\text{C} \pm 5^{\circ}\text{C}$), normal humidity (50 -70%) and with absence of UV-radiation.

Shelf-life

FLEXILODICE with self-adhesive (SA version): maximum 12 months after delivery date if stored in original packing under proper conditions as described above.

Health and safety measures

Observe usual workplace health and safety rules. Refer to the safety data sheet of **FLEXILODICE**.



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