

General

Intumex® L/HP is non-ageing graphite based intumescent seal with a starting temperature of approx. 190°C, with a highly efficient performance.

Area of application

Intumex® L/HP is an intumescent seal for metal doors, gates and dampers in walls and floors.

Properties

- ⇒ Powder coating of seal is possible (after preliminary tests)
Furnace temperature: 170° C
Maximum air temperature: 190° C
Time of exposure: 35 min
- ⇒ Overpainting is possible with standard paints (eg acrylic, chlorinated rubber, 2-component epoxy-resin paints, silicones, etc. – adhesion and compatibility must be checked).
- ⇒ Resistant to humidity and atmospheric influences
- ⇒ Free of organic solvents



Technical Data

Colour	Anthracite grey
Appearance	Flexible seal
Density	1.2 ±0.2g/cm ³
Weight	1.8mm thickness: 2.2 ±0.3kg/m ² 2.5mm thickness: 3.2 ±0.35kg/m ²
Reaction to fire	B1, slowly combustible
Expansion temperature	Approx. 190°C
Expansion ratio	minimum 1:20 (30 min./550°C loaded)
Expansion pressure	0.8N/mm ² (300°C)
Thorn flexibility	75mm (20°C)
Humidity resistance	Insoluble / hygroscopic (no effect on fire performance)
Carrier material	Glass fibre web

Above indicated data of expansion ratio and pressure are taken from the DIBT building material approval. The actual expansion ratio as well as the generated expansion pressure are essentially depending on the fire test of the assembly and also on the joint dimensions of the construction itself.

Test certificate/Approval

- ⇒ on request

Additional test approval

- ⇒ Thermal conductivity: 0,238 W/(mK) (MPA Hannover)

Packaging

- ⇒ Product variations: L-HP – blank intumescent seal
SK – self adhesive foil (LSK)
P – PVC-foil white, red, black (LP)
L/HP-PSK – intumescent seal with PVC and self adhesive foil
- ⇒ Thickness: 1.8mm, 2.5mm (intumescent part)
(Tolerances: ±0.3mm)
- ⇒ Sheet dimensions: 2150 x 900mm or 1075 x 900mm
- ⇒ Strip dimensions: in a width of 10 to 900mm – all product variations
(tolerances width: +0.1/-0.5mm)
- ⇒ Coil dimensions: in a width > 10 mm – only in L-HP and L/HP-SK variation (tolerances width: +0.5/-0mm)
- ⇒ Stamping parts: customer specific solutions on request
- ⇒ Packaging: Sheets: 2150 x 900mm, 50 sheets/timber crate
1075 x 900mm, 50 sheets/carton
Strips: 1075, 2150mm carton
Coils: in bulk on pallet

Other product dimensions and variations on request!

Subject to change!

Storage requirements

- ⇒ Store in cool and dry conditions
- ⇒ Protect from frost and heat
- ⇒ Product variations with self adhesive foil are stockable up to 12 months

Safety instructions

- ⇒ Keep out of reach of children
- ⇒ Avoid contact with food or beverages
- ⇒ Please refer to the safety data sheet for additional advice