AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

KERAFIX ® Flexpan 200 - Technical Data Sheet-en

澳迪斯防火科技（廊坊）有限公司

Aodisi Fire Technology (Langfang) Co., Ltd.

销售及选型联系 / Sales & product enquiries

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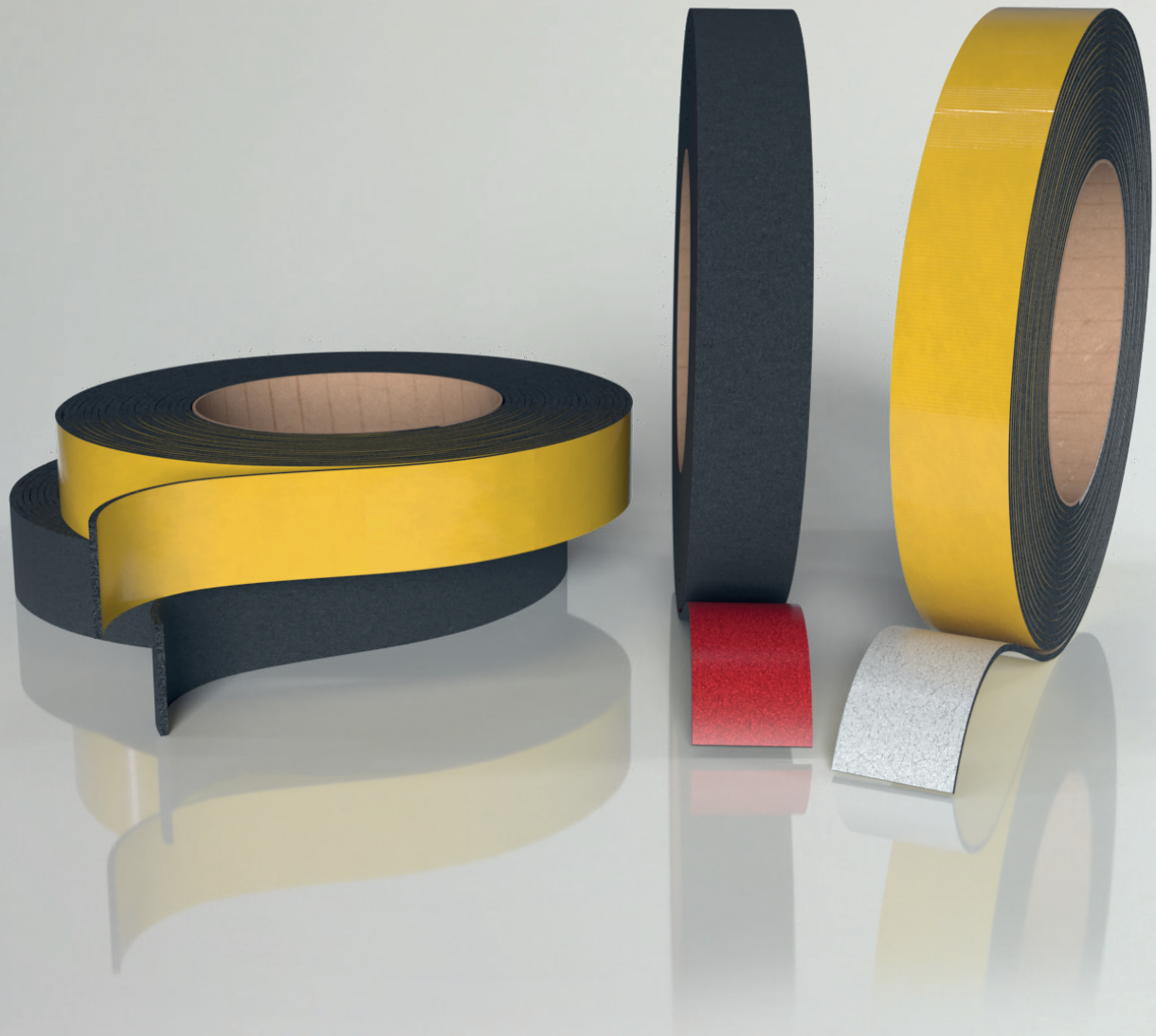
www.gmfireproof.com

以上为销售联系信息，不替代安全数据表中的应急联系电话。
原始技术内容及制造商、检测机构和证书签发信息见后续资料页。

Sales contact only; emergency contacts in safety data sheets remain applicable.
Original technical, manufacturer and certification details follow.

Technical Product Data Sheet

KERAFIX®
Flexpan 200



ECO PLATFORM
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Tech.Rev.: 1.1
Ling. Rev.: 1.0

Product description

KERAFIX® Flexpan 200 is a high-quality, intumescent material based on expandable graphite. It has been developed to meet the highest standards of fire protection.

A feature of the material is its ability to form a stable, pressurised foam body when exposed to heat, providing an effective barrier against fire and smoke.

The material begins to react at around 170 °C, at which point it expands to 32 times its original volume. The KERAFIX® With a density of approx. 1100 kg/m³, KERAFIX® Flexpan 200 is highly robust and durable.

It is used in a wide range of construction applications, including fire protection doors made from steel and aluminium, facades and safety storage cabinets, as well as in dry lining applications such as inspection flaps or partition wall and ceiling structures.

Reaction to fire

- Class E (DIN EN 13501-1)

Properties

- Excellent expansion properties at high temperatures
- High temperature resistance
- Free from halogens and substances that are hazardous to health
- Highly durable and resistant to ageing
- Versatile and suitable for use in a wide range of construction applications

Fields of application

- Fire protection doors made from steel or aluminium
- Special fields of application for doors such as lock case insulation and hinges
- Facades
- Safety storage cabinets
- Control cabinets
- Inspection flaps
- Partition wall and ceiling structures

Technical data

Verification	ETA-12/0152: 06 June 2017
Composition	Halogen-free foaming material based on expandable graphite.
Material structure	Firm, flexible roll material
Volatile components (VOC) [g/l]	None
Thermal conductivity [W/(m×K)]	0.423
Thermal conductivity reference temp. [°C]	10
Bulk density [kg/m³]	1100 ±10 %
Start of reaction [°C]	170
Expansion rate [x times]	17.5 – 32
Reference expansion rate	450 °C – 30 min. – without superimposed load
Intumescent layer	Soft, cohesive material
Expansion pressure [N/mm²]	0.65 – 1.20
Reference expansion pressure	300 °C – method 4
Direction of expansion	Three-dimensional
Storage (SK variant)	In the original package at 18 – 25 °C and normal humidity (50 – 70 %).

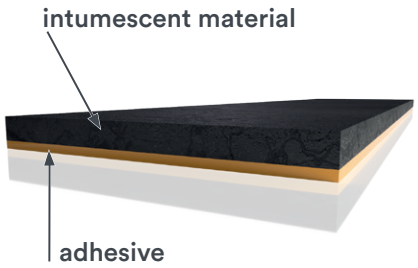
Design variants

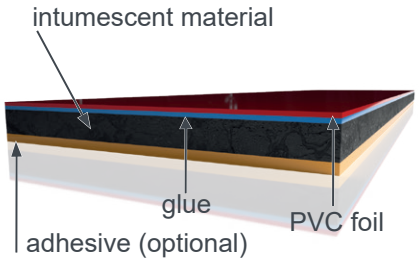
KERAFIX® Flexpan 200 without additional lamination

SK variant: self-adhesive on one side

DF variant: laminated with PVC film in different colours on one side

Other design variants available on request.





Colour variants

Black, white, red

Processing information

1. Surface preparation:
   - The surfaces to be treated must be dry, clean and free from grease and dust to ensure optimum adhesion. During installation in building elements, ensure a precise fit to utilise the full effectiveness of the material.
2. Installation and fixing:
   - KERAFIX® Flexpan 200 can be cut into different shapes and sizes and fixed in place mechanically or using adhesive. For applications in fire-resistant doors and other fire protection constructions, permanent fixing is recommended. The SK variant is self-adhesive, which makes it easier to install and eliminates the need to apply additional glue.
   - In particular, it is installed in applications such as fire protection doors made from steel, aluminium and wood and safety storage cabinets. It is also used in drywall work for partition walls and floors.
3. Safety measures:
   - When cutting and processing the material, a dust extraction system should be used to minimise the build-up of dust. Observe the usual occupational health and safety measures, such as wearing protective gloves and safety glasses.

Delivery forms

Standard lengths [mm]	25,000 and 50,000
Standard widths [mm]	Up to 320
Standard thicknesses [mm]	1.5 and 2.0 (special thicknesses are available upon request)

Special formats are available upon request.
All cuts (length × width) are produced in accordance with the general tolerance DIN ISO 2768-1-c.
All moulded parts and punched parts are produced in accordance with the general tolerance DIN 7715-5-p2.

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