AODISI

FIRE TECHNOLOGY

产品资料与销售咨询

PRODUCT DOCUMENTATION & SALES CONTACT

POLYODICE - 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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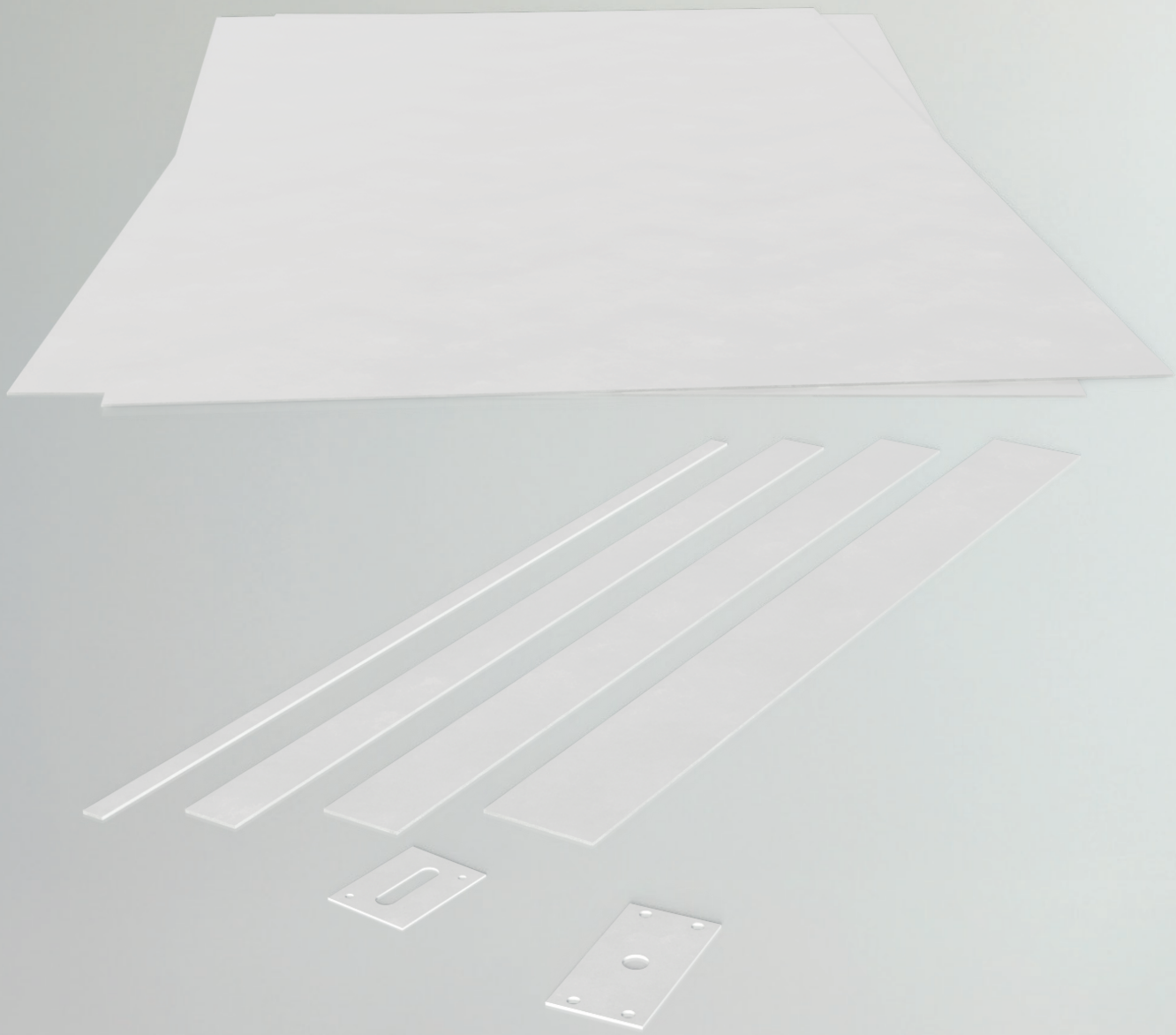
www.gmfireproof.com

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

POLYODICE



kuhnodice

Tech. Rev.: 1.0
Ling. Rev.: 1.0

Product description

POLYODICE is a composite for improving the thermal insulation of fire-resistant constructions. It is comprised of glass fibre and polyester resin, which gives it excellent mechanical strength and thermal insulation properties. It is halogen-free and does not release toxic gases when exposed to fire. It is supplied as boards or strips.

Reaction to fire

- Classification EN45545-2 (railway) HL2 for requirements R22 and HL3 for requirements R23 & R24

Properties

- Composite made from glass fibre and polyester resin
- Effective fire resistance
- Halogen-free with no emission of toxic gases
- Excellent thermal and mechanical stability
- Available as cut boards and strips
- Resistant to high temperatures and offers an efficient thermal break

Fields of application

- Thermal breaks in the installation of fire-retardant and fire-resistant systems
- Insulation in fire protection doors and walls
- Applications in façade and window constructions
- Protection against heat transfer in industrial facilities
- Substrate in multi-layered fire protection systems

Features

- No halogens
- No toxic gases

Technical data

Composition	Glass fibre and polyester resins
Material structure	Glass fibre and resin composite
Temperature application range [°C]	155
Thermal conductivity [W/(m·K)]	0.3 (at 20 °C)
Tensile strength [N/mm²]	70
Bending resistance [N/mm²]	130
Flexural modulus [MPa]	9000 (ISO 178)
Pressure resistance [N/mm²]	250
Impact strength [kJ/m²]	40
Bulk density [kg/m³]	1800
Dielectric strength	At 90 °C: 12 kV/mm with 3 mm thickness (IEC 243-1)
Punch-through stress	At 90 °C: 50 kV (IEC 243-1)
Permittivity	At 48–62 Hz: 4.5 (IEC 250)
Insulation resistance	5×10^6 Ω after 24 hours of immersion in water (IEC 167)
Tracking resistance	600 V (IEC 112)
Storage	Store material in a dry, well ventilated location to ensure the quality level and avoid moisture damage.

Colour

White

Processing information

1. Surface preparation:
   - The surfaces to be glued must be dry and free from dirt such as dust, grease and oil. For optimal adhesion, thoroughly clean the surfaces and degrease if necessary.
2. Cutting and fitting:
   - POLYODICE boards can be cut to the required size using conventional cutting tools such as saws or plate shears. They can be drilled or punched as required for custom shapes and fits.
3. Installation and fixing:
   - The boards can be fixed in place mechanically or through gluing. You can establish a strong connection using special adhesives for fire-resistant materials that do not impair thermal stability.
   - During installation, we recommend placing the boards in a groove to ensure the correct direction of expansion when needed.
4. Safety notes:
   - While working with POLYODICE (particularly while cutting or drilling it), an extraction system should be used to keep dust to a minimum. Follow the standard occupational health and safety measures, such as wearing gloves and safety glasses.

Delivery forms

Dimensions (L × W)	2470 × 1250 mm
Standard thicknesses	3 mm (other thicknesses on request)