

# Thermal break sheets & strips

GB/ 7.2 / Rev. 1

## POLYODICE



odice  
PASSIVE FIRE PROTECTION



## ■ Product description

**POLYODICE** is a laminated composite made from glass fibre (23%) and unsaturated polyester resin with good fire reaction properties. The material is presented in the form of sheets or pre-cut strips. It contains no halogen and does not release any toxic gases.

## ■ Physical characteristics

Type of resin	unsaturated polyester
Density - ISO 1183 (g/cm <sup>3</sup> )	1,80
Thermal index - CEI 216 (°C)	155
Thermal conductivity at 20°C - ISO 8302 (W/m.K)	0,3

## ■ Resistance and behaviour when exposed to fire

Fire reaction - NF P 92507	M1
Smoke classification - NF F 16101	F0

## ■ Mechanical characteristics

Flexural strength	ISO 178 (MPa)	130
Flexural Elastic Modulus	ISO 178 (MPa)	9000
Tensile strength	ISO 527-2 (MPa)	70
Compressive strength	ISO 604 (MPa)	250
Impact strength (parallel)	ISO 179 (kJ/m <sup>2</sup> )	40

## ■ Electrical properties

Dielectric strength at 90°C - IEC 243-1 (kV/mm)	12 (thick. 3 mm)
Breakdown voltage 90°C - IEC 243-1 (kV)	50
Permittivity at 48 - 62 Hz - IEC 250	4,5
Insulation resistance - IEC 167 (Ω)	5 - 10 <sup>6</sup>
Tracking and erosion resistance - IEC 112 (V)	600

## Example of applications and product range

- Thermal breaks when installing fire retardant and fire resistant doors and partitions.

### Standard sizes

In 2470 x 1250 mm sheets or pre-cut strips (please contact us).

### Thicknesses

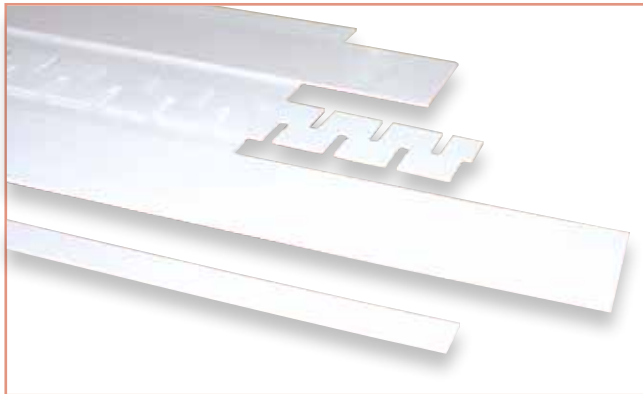
3 mm (for other thicknesses, please contact us).

### Colour

White

### Machining work

Our workshops can custom-machine this material.  
Please contact us.



Example of pre-cut and machined parts

## Safety measures

- Refer to the safety data sheet.

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