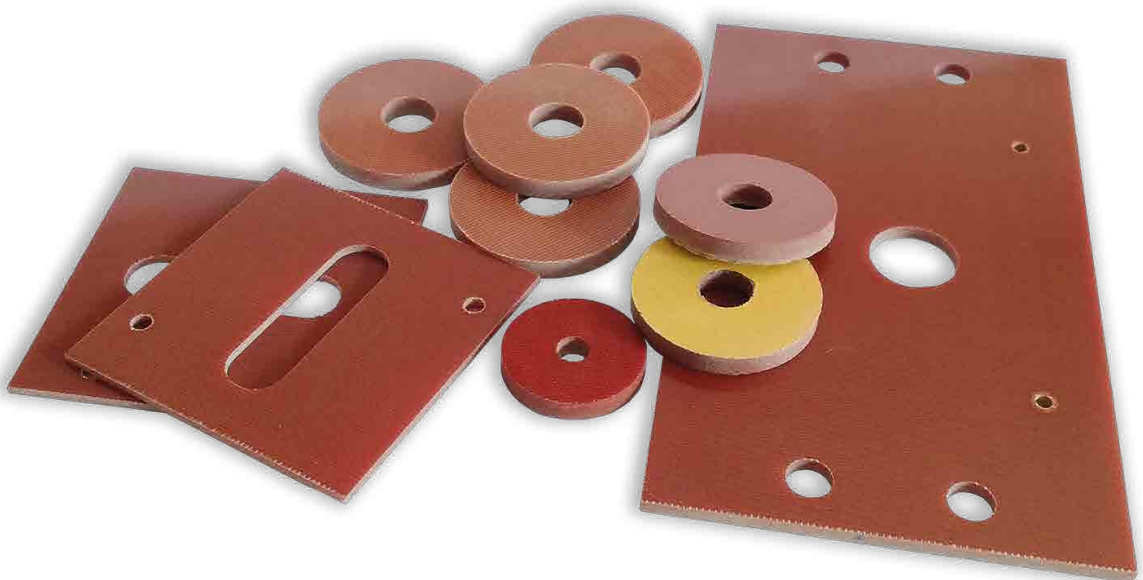


Thermal break

GB / 7.1 / Rev. 5

MORTON



odice
PASSIVE FIRE PROTECTION



Product description

MORTON is a laminated composite made from glass fabric and phenolic resin, especially formulated for fire resistance. It is presented in the form of sheets or pre-cut strips. It contains no halogen and does not release any toxic gases.

Physical characteristics

Density - ISO 1183 (g/cm ³)	1,82
Water absorption on 5 mm thickness - ISO 62 (%)	2
Temperature index - IEC 216 (°C)	130
Thermal conductivity at 20°C (W/m.K)	0,3

MORTON is compliant for the "thermal and acoustic insulation" application of NFPA130: 2014 (test report available on request).

Resistance and behaviour when exposed to fire

Inflammability - IEC 7-7	BH1
Fire reaction - NF P 92507	M1 (test report on request)
Smoke index classification - NF F 16101	F1 (test report on request)
Flame resistance - IEC 695	V0

Mechanical characteristics

Flexural strength - ISO 178 (MPa)	200
Flexural elastic modulus - ISO 178 (MPa)	16 000
Tensile strength - ISO 527 (MPa)	150
Compressive strength - ISO 604 (MPa)	400
Impact strength (notched) - IEC 893-2 (kJ/m ²)	50
Shear strength - IEC 893-2 (MPa)	7

Electrical properties

Transverse dielectric strength IEC 243 (kV/mm)	1,5 (thick. 3 mm)
Longitudinal breakdown voltage IEC 243 (kV)	20
Dissipation factor at 50 Hz IEC 893-2 (tg δ)	0,01
Permittivity at 50 Hz - IEC 893-2 (μ)	5
Total insulating resistance - IEC 631 (Ω)	10 ⁶
Tracking and erosion resistance IEC 112 (V)	100

Example of applications

- Thermal breaks when installing fire resistant doors and partitions, and in kilns and paint booth.

Product range

Standard sizes

3030 x 1220 mm

Width and length tolerance: +/- 5%.

Colour

Dark brown.

Cut strips

Raw length tolerance: +/- 5%.

Cutting tolerances width and length: +/- 0.5mm.

Machining work

Our workshops can machine all types of part to customers' dimensions according to accurate drawings.

Thicknesses (mm)	Tolerance (mm)
2	± 0,28
3	± 0,37
4	± 0,45
5	± 0,52
6	± 0,60

(For other thicknesses, please contact us)



Safety measures

- Observe the usual workplace health and safety rules.
- Refer to the safety data sheet.

Storage

Store flat in a dry well-ventilated area at normal humidity (50 -70%) and with absence of UV-radiation.
Morton with self-adhesive (SA version): has also to be stored at room temperature ($20^{\circ}\text{C} \pm 5^{\circ}\text{C}$).

Shelf-life

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

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