

## Sound insulation sheets for 'light' walls and floors

# ISOMAT TS

**Sound-insulating synthetic sheet which is very flexible and which has a high relative mass. This combination ensures very good improvements in sound insulation for sheet steel, aluminium, wood and synthetics. The best results are obtained when the foundation is lighter than the insulation sheet.**

### APPLICATIONS

Its high relative mass and great flexibility makes Isomat TS exceptionally suitable for improving the sound insulation of partitions between the sound source and the receiver. These partition walls or floors can be made of steel, aluminium, wood or synthetics. Isomat TS is easy to combine with other materials, such as the following sound-absorbing foams: Acousticab, Tecno-cell, Flamex and Merfocell. Isomat TS is recommended for situations which require the reduction of sound that permeates relatively light walls or floors; i.e. machine sounds that pass through wooden floors on motor yachts, or sound radiating via airducts, machine casings and the like. The best results are obtained when the walls or floors to which Isomat TS is applied are lighter than the insulation sheets.

### SOUND INSULATION

The sound insulation is shown in the chart. The insulation values are measured according to DIN 5210.

### FIRE-CLASSIFICATION

Flame-resistant according to DIN 4102 B2.

### DIMENSIONS

Sheet size: 1000 x 1000 mm. Other sizes available on request.

### WEIGHT

- 5 kg/m<sup>2</sup> (thickness 2 mm).
- 8 kg/m<sup>2</sup> (thickness 3,2 mm).
- 14 kg/m<sup>2</sup> (thickness 5,7 mm).
- 24 kg/m<sup>3</sup> (thickness, 10 mm).

### SHAPE, APPEARANCE AND COLOUR

Colour of sheets: anthracite grey.

### PROPERTIES

- High relative mass
- Sound Insulating
- Great flexibility
- Durable

### APPLICATIONS

- Floors of motor yachts
- Air ducts
- Machine enclosures
- Walls



**FIRE CLASSIFICATION**  
DIN 4102B2



**SOUND ABSORPTION**  
See chart

**CE - CERTIFIED**



**MERFORD**

## COMPOSITION

Isomat TS is a flexible, sound-insulating synthetic sheet, made from thermoplastic, unvulcanized rubbers (EVAcopolymers) and mineral fillers.

## RESISTANCE TO LIQUIDS

Isomat TS is resistant to water, oil, fuels and many solvents and cleaning agents.

## TEMPERATURE RESISTANCE

Withstands temperatures between -40 °C and +80 °C

## INSTALLATION

- Easy to cut to size and to shape with a knife, circle or band-saw or with shears.
- The synthetic material can be re-shaped thermoplastically at ca. 100 °C and can be warmed in an oven, using an infrared beam, or a burner.
- The surface should be dry and free from dust and grease.

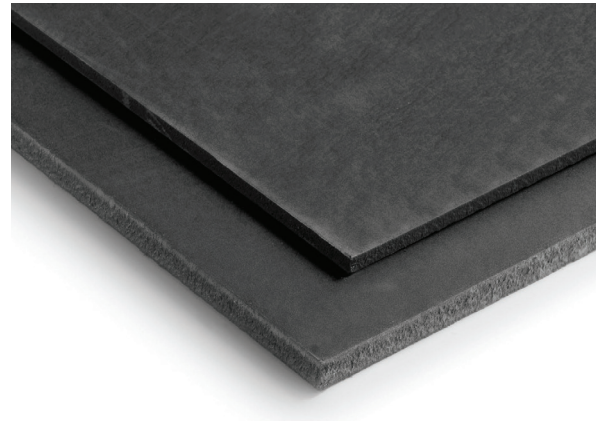
- To insure proper sound insulation, sheets must be closely aligned. Any seams between sheets and joints should be glued with silicone.
- Glue with Select AAC-contactlijm on surfaces that do not get hotter than 70 °C.

## CUSTOM SOLUTIONS

We can manufacture Isomat TS in any desired size or shape, including any cut-aways with our water jet cutter or punching machine. The added costs are returned by faster and simpler installation. Ask us for options and prices!

## DISCLAIMER

The recommendations and information listed in this product sheet are shown as complete and accurate as possible, but offer no guarantees. Check with one of our specialists or perform your own test.



Isomat TS sheets

Improvement of airborne sound insulation value of R Isomat TS as a function of frequency, measured according to DIN 52,210

