



Sound absorption foam with moisture and oil-resistant foil coating

MERFOCELL PU

Sound-absorbing flat foam, fitted with an extremely thin, flexible moisture and oil-repellent foil layer. Little dust or dirt adheres to the smooth surface and it is easy to clean. Merfozell PU is especially recommended for application in engine compartments and spaces where dirt and sprayed liquids must not be absorbed by the foam.

APPLICATIONS

Due to its impermeable, moisture and oil-resistant PU foil coating, Merfozell PU is especially recommended for application in engine compartments and spaces where dirt and sprayed liquids must not be absorbed by the foam.

SOUND ABSORPTION

25 mm: NRC = 0,55; $\alpha_w = 0,60$
 50 mm: NRC = 0,55; $\alpha_w = 0,55$
 NRC and α_w -values of other thicknesses on request. The sound absorption characteristics have been measured according to EN 354: 2003. (see graph).

FIRE CLASSIFICATION

The foam (excluding top layer) is self-extinguishing according to:

- FMVSS 302
- ASTM D-1692-68
- DIN 53438

SIZE

Sheet size: 1200 x 1000 mm or on a reel of 1500 width.
 Thicknesses available: 25, 40 and 50 mm.
 Other thicknesses available on request.

WEIGHT

Density: 25 kg/m³.

SHAPE, APPEARANCE AND COLOR

Top layer in black, different RAL color available on request. Color of the foam is anthracite.

PROPERTIES

- Sound absorbing
- Decorative
- Versatile applicability
- Moisture and oil-repellent
- Not susceptible to tear

APPLICATIONS

- Engine compartments
- Machine enclosures



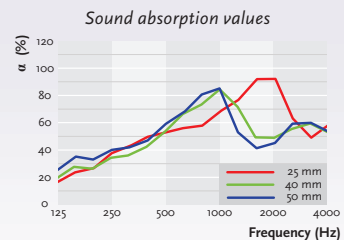
FIRE CLASSIFICATION

Merfozell: FMVSS 302



SOUND ABSORPTION

See graph



MERFORD

COMPOSITION

Merfocell PU is an open-celled, sound-absorbing foam plastic with excellent sound absorption characteristics. The foam is fitted with a moisture- and oil-resistant foil coating which is strong and tear-resistant. Merfocell PU is available in various thicknesses, with or without a selfadhesive glue layer.

LIQUID RESISTANCE

The foam is resistant to water, oil, fuels and many solvents and cleaning agents. Should the foam be saturated with one of the above-mentioned substances for a prolonged period, the self-adhesive glue layer may weaken. After drying however, it will generally recover.

TEMPERATURE RESISTANCE

- The foam withstands temperatures to ca. 100 °C (peaking at 120 °C)
- The self-adhesive layer is heatresistant to ca. 70 °C and adheres exceptionally well to both coated and untreated (smooth) surfaces.
- The self-adhesive layer has to be protected against UV radiation (like sunlight) during application and storage, otherwise the glue will deteriorate very rapidly.

THERMAL INSULATION

Heat conduction coefficient: 130J/mh °C.

ADDITIONAL TECHNICAL DETAILS

- The strength of the self-adhesive glue layer is at least 11 N/cm, measured according to ASTM D-903-48.
- Under extreme conditions (Heat, fluids and UV radiation) the foam will deteriorate more rapidly.

INSTALLATION

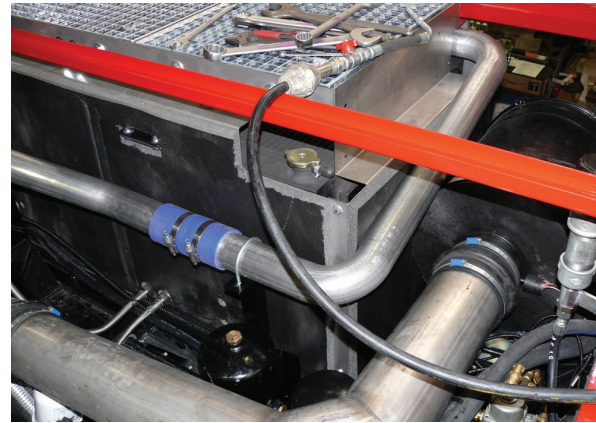
- Easy to cut to size and shape with a knife, scissors or band-saw, without special tools.
- Easy to install on curved surfaces.
- Surfaces to be covered should be dry and free from dust and grease.
- Acustitape should be used to seal any seams, to prevent foam from absorbing dirt and spattered liquids.

Self-adhesive material:

- Press firmly to avoid air bubbles;
- Do not use on surfaces that get hotter than 70 °C (in connection with the self-adhesive);
- Do not process at temperatures below 15 °C (in connection with the self-adhesive);
- Prepare porous or rough surfaces with Select AAC contactglue.

Non-self-adhesive material:

- Glue non-self-adhesive material with Select AAC contact glue.
- See also the Select AAC instruction sheet.



Merfocell PU in a motor compartment

CUSTOM SOLUTIONS

We can manufacture Merfocell PU 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 visit our website

