



Thermoformed parts made of acoustically effective polyurethane foam materials (ester or ether) or non-woven materials combine form and function. The acoustic effect is carried out with damping of the airborne sound waves by converting the excitation energy into heat. Through embossing, closed component edges or function contours are generated, for example, for 3D installation situations. In addition, functional and visual requirements can be met with laminations by decoration and functional textiles, films or surface coatings.

### ✓ DESIGN

#### **Basis**

- 2D/3D data
- interfaces: IGES, STEP, DXF
- templates
- CAD system: Solid Works, Inventor, AutoCAD
- component development based on prototypes
- maximum component measurement: approx. 1.500 x 1300 mm

#### **Tools**

- aluminium embossing tools
- stamping tools
- alternatively: programming waterjet

### ✓ PRODUCTION PROCESS

#### **Hot embossing process with partial embossings**

- edge embossing
- contour embossing
- inline embossing-stamping process (optional)

### ✓ PROPERTIES

- simple assembly
- acoustically effective
- low tool costs
- flammability complies with ISO 3795 and FMVSS 302