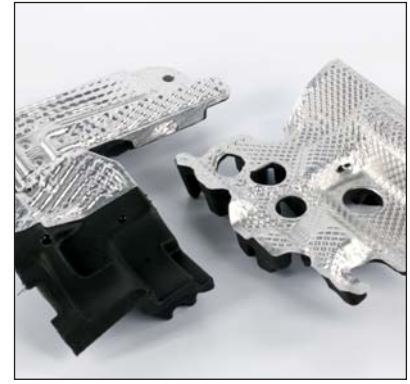
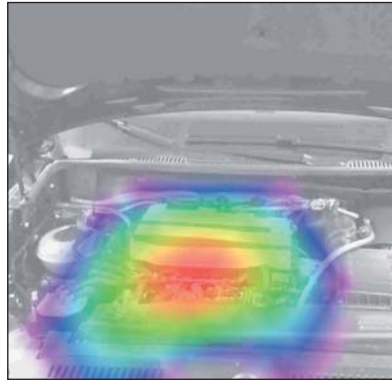




 **Baur**®
FORMSCHAUMTECHNIK

foaming **PUR**e solutions



HARD FOAMS ENERGY-ABSORBING FOAMS (EA)

Rigid polyurethane foam belongs to the family of thermosetting plastics, which explains its high form and dimensional stability, even at high temperatures. It is also pressure-resistant, water-repellent and resistant against many chemicals, depending on the formula.

Applications include thermal insulation of pipes, valves, heat exchangers, refrigeration systems, etc.

When mechanically loaded **energy absorbing foam (EA)** deforms reversibly, the energy is converted into heat or, with harder formulas, the energy absorbing plate is also crushed.

Energy-absorbing foam finds applications in bumpers, vehicle interiors, A, B and C pillars, impact protection, roof liners and protective knee pads.

ACOUSTIC SOLUTIONS

Depending on the design, polyurethane foams are suitable for **acoustic insulation** and **sound absorption**. Task-specific solutions can be found based on the right formula. Due to a diverse range of properties and applications traditional plastic materials cannot compete with polyurethanes.

The combination of the raw materials in the formulas and their stoichiometric ratios determine the class of the foam: integral soft foam, semi-rigid, hard, EA foam or fire-retardant foam. Each foam class can be matched precisely to each customer's specific requirements. Typical customer requirements include chemical resistant surfaces, acoustic properties, weight reduction or a solution to geometrical challenges.

SPECIAL SOLUTIONS

Fire-retardant substances are integrated into the foam structure in order to meet increased fire protection requirements.

The foam properties are adapted precisely to customer requirements. Advantages include a reduced risk of starting a fire as well as the spread of fire. The acoustic insulation is increased. A typical application includes engine compartments and the electronics industry.

Function integration:

Polyurethane foam parts, for example, allow you to apply foam to or around **mounting plates**. Plastic or wooden parts can also be combined for further functional integration.

Integrated **heat shields** are designed for protecting polyurethane foams from heat radiation, e.g. from exhaust systems, catalytic converters, etc., in order to reflect and dissipate heat, as well as to create insulation against heat transfer.