



 **Baur**  
FORMSCHAUMTECHNIK

foaming **PUR**e solutions

## WHO WE ARE...

Baur Formschaumtechnik has been dedicated to the production of polyurethane moulded parts for more than 40 years and is currently one of the leading suppliers. Baur's product and service portfolio ranges from development support and prototype construction, including subsequent production, all the way to services for remedying acoustic problems, lightweight construction and moulding.

Our customers primarily come from the automotive and medical sectors.

Our company headquarters are located in Mindelheim (Germany). To meet the demands of a continuously expanding customer base, we have established an extensive network of development support and production sites around the world: Baur Formschaumtechnik subsidiaries are located in Valašské Meziříčí (Czech Republic) and Wuxi (China).

Thanks to close collaboration with other partners, we also offer our services in the United States.

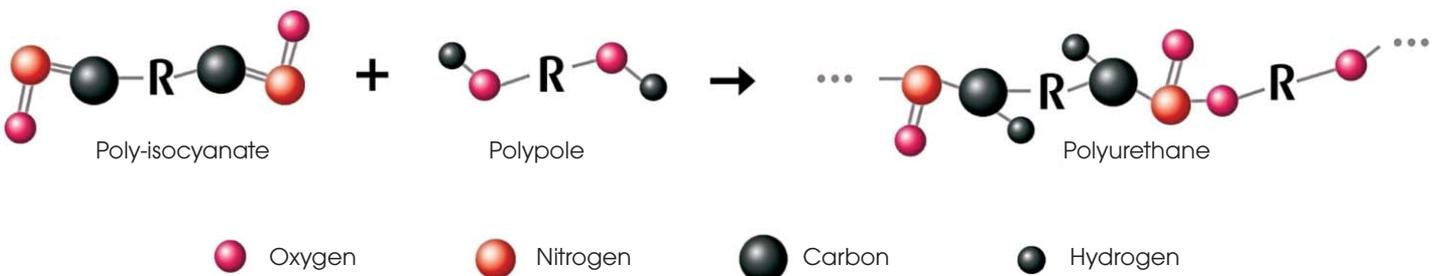
As an innovative company, we aim to play a decisive role in defining state of the art polyurethane foam solutions.



Mindelheim

WELCOME  
TO

**Baur**  
FORMSCHAUMTECHNIK





## INTEGRAL FOAM MATERIALS

**Soft and semi-rigid integral foam material** is used in a number of areas of the automotive industry (e.g. armrests, headrests, control buttons, knobs and acoustic components).

Integral foam can be used for armrests in furniture, knee pads, and toolboxes of various trades. Its biggest advantage is the high level of protection.

This is based on the shock-absorbing characteristic of the foam core in combination with the durable, tough outer surface.

Baur Formschaumtechnik produces flawless moulds with integral foam surfaces that cannot be made using conventional methods. The material can be painted, for example, for UV stabilisation or for visible parts with a photo-etched surface structure.

## SOFT FLEXIBLE FOAMS

**Polyurethane cold foams** are produced in tools with a relatively low temperature.

Due to its virtually unlimited number of possible applications, this foam is used in a wide range of areas: the automotive industry, manufacturing of seating and upholstered furniture, aviation, applications with severe thermal loads, medical technology, toys and the leisure industry...

High elasticity, low compression set, and low compressive strength fatigue ensure durable and reliable quality, which can be reproduced any number of times and in large volumes.

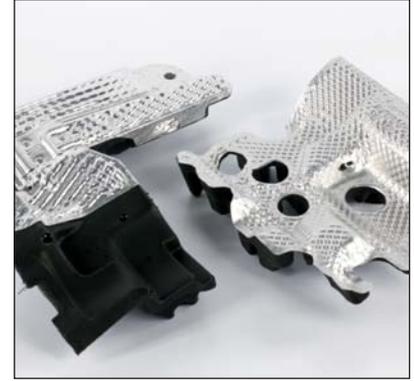
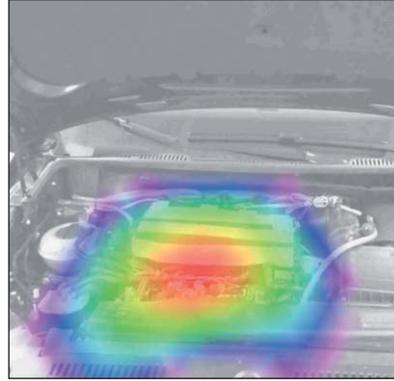
We also offer the perfect solution for applications in splash water areas - with foam-backed film or painted moulded foam parts.

## SEMI-RIGID FOAM

We use **semi-rigid polyurethane foams** to produce foam parts with a significantly higher level of hardness than soft foams and with good damping properties.

Due to their wide range of positive characteristics, semi-rigid polyurethane foams are more frequently used in many areas, such as the automotive and the construction industries. Semi-rigid foams are primarily characterised by vibration and sound-absorbing properties combined with high rigidity, high temperature stability and excellent media resistance.

The finished mouldings frequently present innovative solutions, which offer imaginative design possibilities, thereby ensuring satisfied customers.



## 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.



Valašské Meziříčí, Czech Republic



Wuxi, China

## ... AND HOW WE WORK

Moulded parts made of polyurethane (PUR) are used in cars, household appliances, furniture, clothing, shoes, films, sports equipment, packaging materials and many other everyday products.

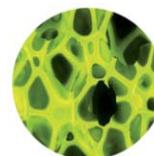
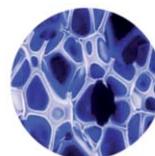
As a flexible and modern company, we inspire our customers - from Brazil to Europe all the way to China - with our polyurethane foam solutions. The scope of application ranges from prototypes to small- and large-scale production for a wide range of industries, such as vehicle manufacturing, special industrial sectors, and much more.

The diversity of our moulding production allows our customers to consider designs that at first seem infeasible or cost prohibitive. We are different.

The potential applications for polyurethane are extremely diverse. With innovation and a passion for development and expertise, we constantly develop new polyurethane applications and expand into new markets.

Of course, our broad range of services includes bespoke design, implementation in CAD and support in tool construction as well as modern prototyping methods, corresponding logistics and comprehensive project management.

We highly value a close and fruitful dialogue with our customers, starting with the development and quotation phase. As specialised consultants with rapid response times, we find the best solution for each of our customers by working with our highly skilled and trained employees, as well as our modern pool of machinery and a certified quality management system.





**Baur**  
FORMSCHAUMTECHNIK

**Charlotte Baur Formschaumtechnik GmbH**

Ifenstraße 2  
87719 Mindelheim

P.O. box 1126  
87711 Mindelheim

Tel.: +49 (0)8261 3030

Fax: +49 (0)8261 6245

cbaur@formschaum.de  
[www.formschaum.de](http://www.formschaum.de)

