



KRAIBURG PuraSys **Your PUR-Manufacture**

Your partner for complex requirements
in the field of PUR-integral foam

Acoustic and vibration isolation in construction and industry



Competence in noise and vibration reduction solutions in construction and industry

KRAIBURG PuraSys, as part of the KRAIBURG Holding, focuses on elastic building and machinery bearings made of polyurethane in the construction and industry sector.

Why vibration isolation?

Industry, transport and housing development are becoming increasingly closer. The vicinity results in impairment due to sound and vibrations.

Which problems occur?

Without appropriate measures, buildings, the people who live in them, machines and machine foundations or sensitive components are defenseless against vibrations from the immediate surroundings. Unwanted or impermissibly strong vibrations can also occur in buildings or industrial plant. Secondary airborne noise also increases, since structural elements such as ceilings or walls are also stimulated.

Solution

The products PURASYS **vibrafoam** and PURASYS **vibradyn** offer effective protection against vibrations and shocks.

PURASYS **vibrafoam**

This high-tech PUR-elastomer can be used as a flat mat for decoupling between the components, as cut sections matching the relative structural component geometry or as an individually manufactured moulded part. We offer you a wide range of 13 standard materials and the possibility of producing special types in various colours and thicknesses according to your requirements.

PURASYS **vibradyn**

Elastic bearings of buildings, whose foundations come into contact with groundwater, are particularly problematic and can only be realized with special elastomers. PURASYS **vibradyn** was specifically developed for such high demands. The closed-cell PUR-product for highly effective vibration isolation can be used in application areas such as building isolation, including in groundwater – in a static load range from 0.075 – 1.5 N/mm².

Acoustic and vibration isolation in rail traffic



Competence in noise and vibration reduction solutions in rail traffic

For the railway sector, KRAIBURG Purasys specializes in sub-ballast mats, bearings for mass-spring systems and other special elastic supports made of polyetherurethane in the railways superstructure.

Why vibration isolation?

Rail vehicles generate rolling noise and vibrations during operation. This is due to roughness and imbalances on both the wheels and the rail running surfaces.

Which problems occur?

The vibrations are transmitted to the ground via the roadway and spread as structure-borne noise. If buildings are located along or near the track, a transfer is also carried out via their foundations. The buildings begin to vibrate and, with the appropriate intensity, they are also perceived by humans as perceptible vibration or disturbing noise.

Solution

PuraSys products for track construction are made of high-quality elastomer materials. With the extensively tested formulations, the products meet special requirements resulting from the loads in the track area.

Our services at a glance

- Material testing and measurement on our own large scale test bench
- Project support from the beginning
- Installation advisory and site support
- Preparation of installation plans
- Solution development
- Calculation and simulation
- Efficacy forecasts

KRAIBURG PuraSys has already successfully established itself on the international market through numerous projects with its PUR-products for solving noise and vibration problems caused by rail traffic.

Moulded parts – Overview



Quality products from PUR-integral foam

Polyurethane is an extremely versatile material. Due to the adaption of material properties such as density and surface properties, it is suitable for many applications.

We cooperate with

- the automotive sector
- the rehabilitation, health and leisure sectors
- the furniture production
- power tools and mechanical engineering
- commercial / service companies of all kinds
- ...

PuraSys moulded parts convince

- as components made of PUR-integral foam or as complex foamed assemblies. Almost all materials such as metals, plastics, wood etc. can be foamed around.
- through individual shape and ergonomic design
- in any degree of hardness from 30 ± 5 to 75 ± 5 Shore A
- by a colour design of your choice
- through a demand-orientated production

We offer

- long-lasting experience
- comprehensive advice and support from our specialized and experienced staff
- our own development department and thus the possibility of realizing material components exactly adapted to your requirements
- fast and flexible reactions to the individual requirements of customers and markets
- solutions even for complex problems
- innovations and ideas
- rigorous quality checks
- convincing price-performance ratio

From the conception and procurement of the required tools and inserts to the delivered part, our experience enables us to offer you full-service solutions.

Moulded parts for the automotive and floor conveyor sector



© Albert Ziegler GmbH

Everything made to measure: Technical moulded parts

KRAIBURG PuraSys supplies quality PUR-integral foam products to OEM and suppliers in the automotive and material handling industries worldwide.

Whether for passenger cars or commercial vehicles of all kinds – PUR-integral foam supplies custom-fit molding solutions for the automotive industry.

We manufacture complete parts from PUR-integral foam or foamed components such as armrests, handles, headrests, insulation pieces and much more. This way we create individual solutions according to your specifications that meet the highest demands.

All our moulded parts are characterised by exact colour matching, fit and durability. Through certification according to ISO 9001:2015 and additionally IATF 16949:2016, we guarantee a consistently high quality standard and secure processes for our customers.



Moulded parts for the industrial sector



Moulded parts for various applications

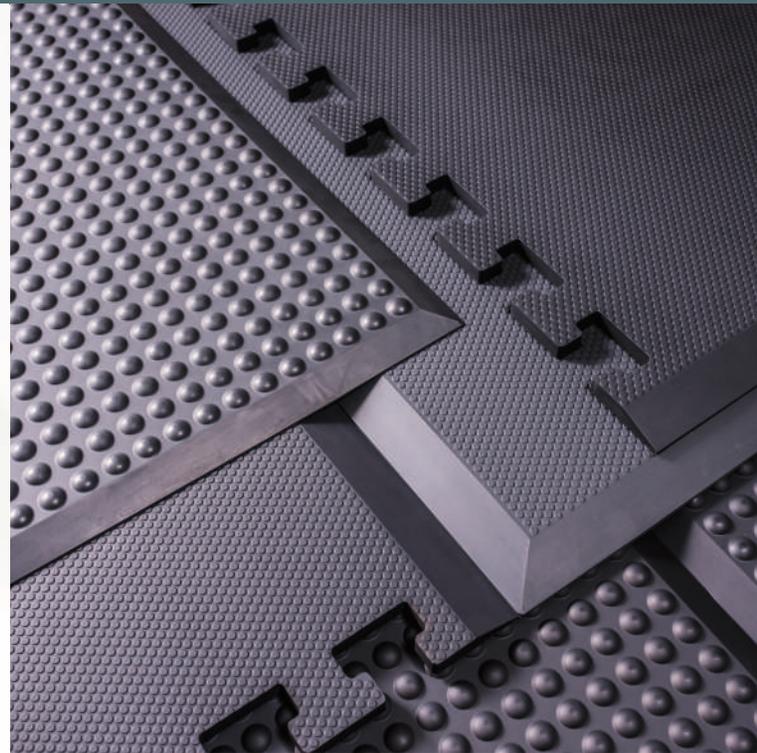
There are countless possibilities for the use of PUR-integral foam. Whatever you have in mind, we can turn your ideas into reality. Our experts will advise you in a targeted and solution-oriented manner and work with you to develop components that are convincing in design, function and durability. We also offer advice on geometry and installation options.

In the field of rehabilitation and sports, for example, we are specialists in the production of high-quality protective and padding elements made of polyurethane foams. Whether components for wheelchairs, mobile walking aids or various accessories for equipping hospitals, medical practices and care facilities – our products always convince with ergonomics, safety and stability.

Thanks to an inhouse formulation of our foam systems, we are also able to meet a wide range of requirements such as different shore hardnesses or colouring.



Ergonomic workplace design



More comfort at work

Knee cushions – Sanitas Knee Care

Sanitas Knee Care is an anatomically formed knee cushion for the highly sensitive knee joints and, thus, an indispensable addition to all kneeling activities in crafts, production, trade and services.

Optimal knee protection

- Heel seat and squat mean maximum extension and pressure load in the knee joint and are reduced with the knee cushion
- Optimal pressure distribution of the body weight
- Relief for the lower leg through „supported kneeling“; pressure on the knee joint is reduced
- Shock-absorbing and damping due to flexible PUR-integral foam
- Long-lasting and easy to care for
- Compensation of disturbing floor unevenness
- Ergonomic yielding of specially developed PUR-integral foam system for optimal adaption to individual body conditions
- Practical handle shape for easy transport

Elastic floor mats – dynamicSTEP

The dynamicStep floor mats consists of a special PUR-integral foam system. The strain on the body, caused by walking, standing and turning on hard surfaces in everyday working life is reduced.

Ideal equipment for standing workstations

- Scientifically proven ergonomic effectiveness: Reduction of strain on the body and joints by 60 %
- Reduces signs of fatigue
- Preventive against degenerative changes to the joints in the feet, knees, spine and hips
- Resistant to oils, solvents, benzine, greases and many chemicals
- Easy to clean
- Insulates against cold, heat, footfall sound and is shock-absorbent
- Reduces danger of tripping through the use of beveled edges
- Can be used in many sectors thanks to a wide range of variations: standard, antistatic
- Linking of endless walkways possible thanks to link system
- Available with round and flat pastilles
- Available in various colours



KRAIBURG PuraSys GmbH & Co. KG
Porschestraße 1 · D-49356 Diepholz
Fon +49 (0) 5441. 5954-0 · Fax +49 (0) 5441. 5954-24
info@kraiburg-purasys.com · www.purasys.com

© KRAIBURG PuraSys GmbH & Co. KG All information is provided without guarantee and is subject to changes.

 printed on 100 % recycled paper
by using clima-neutral printing processes