

## POLYVLIES FRANZ BEYER GMBH & CO. KG

### Foundation

- 1850

### Turnover

- About 50 million €

### Employees

- Over 250 employees

### Branches

- Agriculture & Horticulture
- Automotive
- Building and Construction
- Consumer Goods
- Packaging

### Key materials

- Flax
- Hemp
- Kenaf
- Sisal
- Jute
- Wool
- Cotton

### Key bio-based products

- Naroplast®
- Narodur®



### “Nonwovens for innovations. Innovations for nonwovens.”

Polyvlies is an owner-managed medium-sized family company with over 250 employees.

Polyvlies produces and finishes technical nonwovens made out of synthetic and/or natural fibres. Because of incorporating the most modern technology Polyvlies is capable of producing technical textiles with a maximum working width of 6 metres and weights from 80 to 4,000 g/m<sup>2</sup>.

The focus on customer orientation and joint application-specific developments has resulted in a range of more than 6,000 products that are produced from a number of different raw materials in an order-specific production procedure for various sectors (e.g. automotive, home textiles and geotextiles etc.)

### Materials

In addition to the use of a wide variety of synthetic fibres, per example polypropylene and polyester, a further focus is the processing of renewable raw materials. Based on our years of experience in this sector, the respective production processes are continuously modified and the production capacities consistently expanded. Of the 15,000 t of fibres that are turned into nonwovens every year at Polyvlies, 5,000 t are already natural fibres. These include flax, hemp and kenaf, but sisal, jute, wool and cotton are also still used.

The customer groups and applications for these natural fibre products are wide-ranging (e.g. construction, furniture, agricultural, automotive industries etc.) The preliminary products or semi-finished products for natural fibre reinforced plastic composites make up the lion's share here. Primarily, they are used for thermoplastic and thermosetting compression moulding in the automotive industry.





## Products

### Naroplast®

Naroplast is a thermoplastic natural fibre plastic composite whose benefits, such as high strength and impact resistance combined with a low weight, come to the fore after compression moulding. This means that it is especially suited to ideally satisfy the strict requirements of the vehicle manufacturing industry. Compared to conventional materials, the symbiotic combination of renewable raw materials and synthetic polymers plays an important role in conserving natural resources, storing CO<sub>2</sub>, saving fuel, increasing passive safety and reducing noise levels. In addition, the matrix polymers can now also be replaced with low-emission materials without compromising performance.

### Narodur®

Narodur is a thermosetting natural fibre plastic composite whose benefits, such as high strength and especially high stiffness combined with a relatively low weight, come to the fore after compression moulding. This means it is especially suited to ideally satisfy the very strict requirements made of carrier parts in the automotive, construction, shipbuilding or furniture industries. Here again, the symbiotic combination of renewable raw materials and synthetic polymers help to counter global warming, reduce noise emissions and contribute to passive safety. Depending on the application, customers have a choice of various matrix systems that can be supplied as pre-impregnated and ready for use in the pressing moulds.



## Contact

### Polyvlies

Franz Beyer GmbH & Co. KG

Rodder Str. 52

48477 Hörstel

Germany

Phone: +49 (0) 5459 93 100

Fax: +49 (0) 5459 93 10 50

info@polyvlies.de

www.polyvlies.de

### Contact persons

Bruno Lüke

Automotive

b.lueke@polyvlies.de

Martin Bolte

Non-automotive

m.bolte@polyvlies.de

