

POLYVLIES FRANZ BEYER GMBH

Foundation

- 1850

Employees

- Over 400

Branches

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

Key materials

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

Key bio-based products

- Naropur®/Narodur®
- Naroplast®



Nonwovens for innovations.

Technical nonwoven fabrics from Polyvlies.

Polyvlies is an owner-managed medium-sized family company with over 400 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/m².

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.).

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 40,000 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.



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POLY
VLIES
Group

Products

Naropur® / Narodur®

Naropur® is a pure natural fiber nonwoven, which is used in many fields of application, e.g. in gardening and landscaping, in home textiles or in the food industry.

Moreover Naropur® is the pre-product for a natural fiber composite with a duroplastic matrix which can be impregnated after production of the mat. By that, Naropur® becomes Narodur® which after compression molding reveals its benefits such as high strength and especially high stiffness at a comparatively low component weight. With Narodur® the extraordinary high demands on load-bearing components in the automotive, shipbuilding, aircraft or furniture industry can be fulfilled.

Naroplast®

Naroplast® is the pre-product for a natural fiber composite with a thermoplastic matrix which as a fiber already appears in the mat (hybrid nonwoven). After compression molding at the customer, its benefits such as high strength and impact resistance combined with a low weight come to the fore.

With Naroplast® even highest requirements of the automotive sector can be fulfilled optimally and economically (e.g. no hot-mold necessary, short cycle times, adhesive-free one-shot processes, connection of plastic elements by back injection molding technology possible, etc.).

