



Optimal engineered woven geotextiles





Technical Textiles

Applications & Solutions

Woven geotextiles and geocomposites

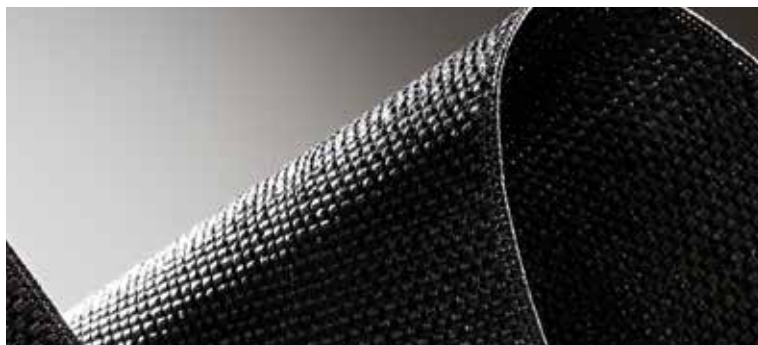
Beaulieu Technical Textiles produces woven geotextiles and custom-made geocomposites in close technical collaboration with customers. Depending on the requested functionality and application, we select which product and production technology offer the best possible solution for your ultimate needs. In addition to ready-to-use woven geotextiles, we develop and deliver optimally engineered geotextiles to meet stringent geotechnical specifications.

Optimal engineering of woven geotextiles

The woven fabric can be used from the shelf or can be customized. Variation in fabric construction - property, density and weave pattern - gives the opportunity to engineer the ideal geosynthetic material for any given application.

Inhouse expertise in extrusion - weaving - coating - lamination - tufting - needle punching

Our company proposes production technologies such as extrusion, weaving, coating, lamination, tufting and needle punching for geotextiles. These production processes offer customers the right technology in order to produce customized geotextiles and geocomposites.



Production process of woven geotextiles

- The production process starts with a specific polymer selection and functionalities such as colour, UV, and anti-oxidation.
- Tapes and slit film are manufactured by a continuous polymer melting extrusion process.
- The film is slit into flat tapes, which are then drawn to increase strength and wound onto bobbins for subsequent processing.
- During the beaming process, thousands of tapes are unwound from the bobbins onto large beams.
- The weaving process starts with the beams on the loom for the warp (longitudinal) direction, while tapes are introduced during the weaving process in the weft direction.



Large range of products

Terralys®

PP polypropylene woven geotextiles
Functionality : separation - filtration - reinforcement
Tensile strength : 15 - 100 kN/m
Applications : road construction, railways, embankments of soft soils, hydraulic structures, cavities

Terralys® GCL

PP polypropylene woven geotextiles
Functionality : strengthens the mechanical properties of geosynthetic clay liners
Application : component for geosynthetic clay liners (GCL) or bentonite mats.

Geocomposites

The composition of a woven together with a non-woven geotextile can also be produced. Coating, laminating, needle punching and tufting are all available production technics for customized geocomposites.
Functionality : separation - filtration - reinforcement - drainage - erosion control - protection - waterproofness

Terrasilt®

Woven polypropylene silt fence fabric
Functionality : limits the transport of eroded soil from site by water runoff, hence resulting in sediment control and retention

TerrabARRIER

Coated woven polypropylene geotextile
Functionality : tree root guidance
Application : roads and sidewalks

Why choose 'woven' geotextiles ?

- Tensile strength per weight of woven geotextiles offers best-in-class performance.
- Fabric construction of woven geotextiles is easily adaptable and customizable.
- Woven geotextiles represent a remarkable low volume, minimizing transport.
- Woven geotextiles deliver the best price/performance ratio.
- Woven geotextiles can offer a high modulus, valuable in reinforcement applications.



CE Certifications and DOP

Terralys® fabrics used in civil engineering & construction applications are all CE accredited. A CE labelled product complies with the conformity procedures stipulated in the applicable European Directives. Declaration of Performance (DoP) is the key concept in the Construction Products Regulation (CPR). Each CE marked product has its proper DoP certificate and product label, indicating all of the product's essential features. Please consult other certifications on our website.





Technical Textiles

Geotextiles

About Beaulieu Technical Textiles

Beaulieu Technical Textiles is an established leader and driving force in the global market of technical textiles. The company produces textile solutions out of a variety of polymers (polypropylene, polyethylene and bio-based polymers). The fabrics and tapes are used in different industries, such as agriculture and horticulture (agrotextiles), civil construction (geotextiles), the industrial packaging (coated and uncoated packaging), the carpet industry (for primary and secondary backings), and construction (under roofs foils).

Member of Beaulieu International Group

Beaulieu International Group (B.I.G.) is a renowned international group with headquarters in Belgium. Today this industrial group holds a solid market position both in producing raw materials and intermediate goods and in offering an extensive range of perfectly finished floorcoverings. Beaulieu International Group has 4.519 employees in 25 plants, 14 sales offices and distribution centres spread across 15 countries. In 2016, the Beaulieu International Group's turnover was €1.7 billion.

Beaulieu International Group is composed of three business units :
"Polymers" produces polypropylene granules for numerous applications and Technical Sheets. "Engineered Products" houses the activities Fibres, Yarns, Technical Textiles. "Flooring Solutions" is the European leader in wall-to-wall floorcoverings, producing carpet, needle felt, artificial grass, cushion vinyl, vinyl planks, laminate, parquet and wall panels.



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