

Biotex Flax 100 g/m² 2x2 Twill

Lightweight high performance fabric for sporting goods and decorative applications

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Biotex Flax provides high levels of performance, coupled with the ease of processing normally associated with glass-reinforced materials. The materials use low-twist technology to provide a combination of sustainability, performance and processability. Compared to glass fibre composites, Biotex Flax offers reduced weight, improved environmental impact, vibration damping, similar specific stiffness and safer handling.

Biotex Flax is available in a range of yarn weights and fabric constructions. The materials can be processed using standard composites manufacturing techniques and are suitable for semi-structural and decorative applications in a range of sectors, including automotive, sports & leisure, consumer goods and construction.

Biotex Flax 100 g/m² 2x2 Twill fabric is typically used for lightweight and decorative applications in sporting goods, consumer goods and automotive interiors.



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Specifications

Weave Style	2x2 Twill	
Fabric Weight	100 g/m ²	
Width	1500 mm	Others on request
Typical Ply Thickness	0.15-0.25 mm, depending on process	

Processing

Typical processes for Biotex Flax fabrics include vacuum infusion or resin transfer moulding using either standard resins or bio-based resins. The fabrics can also be pre-pregged, and processing is carried out in the same way as glass fibre.

Mechanical Properties

Typical mechanical properties of moulded laminates

Fibre Volume Fraction	24%	
Density	1.27 g/cm ³	
Tensile Modulus	11 GPa	ISO 527-4
Tensile Strength	98 MPa	ISO 527-4
Elongation	1.3%	
Flexural Modulus	8.7 GPa	ISO 14125
Flexural Strength	127 MPa	ISO 14125

Data from vacuum infused laminates using unsaturated polyester resin, tested at ambient temperature.

Safety

Biotex Flax reinforcements are based on renewable biomass and have fewer health and safety concerns than many conventional alternative materials. However, typical precautions should be taken when handling the material including using appropriate PPE and adequate ventilation.

The information provided here is believed to be accurate but should be considered indicative only. It is the responsibility of the customer to ensure suitability for their application prior to use.