



iotex F

Biotex Flax 400 g/m² 2x2 Twill

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 400 g/m² 2x2 Twill fabric is typically used for semi-structural and decorative components in applications such as sporting goods, consumer goods and automotive interiors.









Specifications

Weave Style 2x2 Twill Fabric Weight 400 g/m² Width 1250 mm

Typical Ply Thickness

0.45-0.80 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

Others on request

Mechanical Properties

Typical mechanical properties of moulded laminates

	unsaturated polyester	epoxy prepreg	
Fibre Volume Fraction	310	60%	
Density	1.29 g/cm ³	1.38 g/cm ³	
Tensile Modulus	8.5 GPa	9.3 GPa	ISO 527-4
Tensile Strength	72 MPa	78 MPa	ISO 527-4
Elongation	2.3%		
Flexural Modulus	7 GPa	7 GPa	ISO 14125
Flexural Strength	115 MPa	195 MPa	ISO 14125

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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.

