

ampliTex<sup>®</sup> Art.  
 No. 5018  
 biaxial fabric  
 350 gsm



## Product description

Non-crimp biaxial flax fabric with fibres oriented at +45° and -45°, suitable for manufacturing fibre reinforced composite products with a high performance and a low environmental impact.

### Fabric construction

Fibre type: Flax (EU)  
 Construction: -45/+45°  
 Fabric weight : 350 gsm +/- 5%

### Ply construction

-45/+45 ply  
 Fibre type: Flax  
 Fibre tex: 105 TEX  
 Ply weight: 171 gsm

### Stitching fibre

Thread: textured polyester  
 Weight: 6 gsm

### Measurements

Standard width: 310 mm  
 Standard roll length: 50 m

### Performance advantage

Considering that glass fibres have a density of 2.6 and a tensile modulus of 70 GPa, the flax ampliTex biax 350 gsm can replace a 580 gsm glass fibre biax fabric to have the same stiffness in tension.

In compression, the performance of flax is a bit lower. Since a biaxial fabric often works in traction in one direction and compression in the other direction, the flax ampliTex biax 350 gsm can replace a 550gsm glass fibre biax fabric to have the same stiffness.

	Technical specifications	Dry fibres*	Composite**
Tensile	Strength // to fibres	580 MPa	
	Strength ⊥ to fibres		
	Yield strength // to fibres		
	Modulus // to fibres	61 GPa	
	Modulus ⊥ to fibres	6.5 GPa	
Flexural	Modulus // to fibres		
	Modulus ⊥ to fibres		
	Strength // to fibres		
	Strength ⊥ to fibres		
	Strain to failure // to fibres		
	Strain to failure ⊥ to fibres		
	Density	1350 kg/m <sup>3</sup>	
* Fiber properties measured on a UD flax composite ** No composite data due to fabric architecture			