



**Deliverable n° 3.4.2**

**Technical Data Sheet Biaxial  
FBX312 and FBX424**

**30 / 06 / 20**

**TVDC**



European Regional Development Fund



## Partners

PP Leader : TVDC

Partners involved : KAIROS

## Content

	<b>Non Crimp Fabrics (NCF)</b>	FT NCF
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Reference

**FBX 312**

**FBX 424**

### Characteristics

	Surface weight	<b>312 ± 12 g/m<sup>2</sup></b>	<b>424 ± 16 g/m<sup>2</sup></b>
	Weave type	<b>Biaxial</b>	
	Compatibility	<b>Epoxy, Polyester, Vinylester, Methacrylate</b>	
	Packaging	<b>Roll 60 m</b>	
	Roll width	<b>127 cm / 50 inches</b>	
	Roll weight	<b>24 kg</b>	<b>33 kg</b>

### Construction

<u>Direction</u>	Fibre	Surface Weight	
+ 45°	100% flax non twist roving	<b>153 ± 6 g/m<sup>2</sup></b>	<b>209 ± 8 g/m<sup>2</sup></b>
- 45°	100% flax non twist roving	<b>153 ± 6 g/m<sup>2</sup></b>	<b>209 ± 8 g/m<sup>2</sup></b>
90°	Stitch Polyester yarn 7.6 tex	<b>6 g/m<sup>2</sup></b>	<b>6 g/m<sup>2</sup></b>

### Shear test (ISO 14129)

<u>Structure</u> BX / BX / BX / BX Infusion epoxy	Strength	<b>27.0 MPa</b>	<b>26.5 Mpa</b>
	Modulus	<b>1.24 Gpa</b>	<b>1.24 Gpa</b>
	VI %	<b>34 %</b>	<b>34 %</b>
	Thickness	<b>2.4 mm</b>	<b>3.25 mm</b>

### Tensile test (ISO 527)

<u>Structure</u> BX / flax twill 360 gsm / BX Infusion polyester	Strength	<b>93 MPa</b>	<b>N/A</b>
	Modulus	<b>11.9 Gpa</b>	
	VI %	<b>46 %</b>	
	Thickness	<b>1.62 mm</b>	