



Livrable n° 3.4.2

**Fiche Technique des
Biaxiaux FBX312 et FBX424**

30 / 06 / 20

TVDC



European Regional Development Fund



Partenaires

PP Leader : TVDC

Partenaires impliqués : KAIROS

Contenu

	<h3>Non Crimp Fabrics (NCF)</h3>	FT NCF
--	----------------------------------	--------

Reference

FBX 312

FBX 424

Characteristics

	Surface weight	312 ± 12 g/m²	424 ± 16 g/m²
	Weave type	Biaxial	
	Compatibility	Epoxy, Polyester, Vinylester, Methacrylate	
	Packaging	Roll 60 m	
	Roll width	127 cm / 50 inches	
	Roll weight	24 kg	33 kg

Construction

<u>Direction</u>	Fibre	Surface Weight	
+ 45°	100% flax non twist roving	153 ± 6 g/m²	209 ± 8 g/m²
- 45°	100% flax non twist roving	153 ± 6 g/m²	209 ± 8 g/m²
90°	Stitch Polyester yarn 7.6 tex	6 g/m²	6 g/m²

Shear test (ISO 14129)

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

Tensile test (ISO 527)

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