



# Technical datasheet 2016

## FLAXPLY BL300

### Technical datasheet for weaves

<i>MECHANICAL PROPERTIES OF WOVEN FABRIC COMPOSITE</i> VF (%)	TENSION	FLEXURAL
	46 ±	46 ±
Density (g/cm <sup>3</sup> )	1.29 ±	1.29 ±
Modulus in warp direction (GPa)	E1= 11.2 ± (1) E2= ± (2)	E1= 8.9 ± (1) E2= N/C ± (2)
Modulus in weft direction (GPa)	E1= N/C ± (1) E2= ± (2)	E1= N/C ± (1) E2= ± (2)
Strength in warp (MPa)	113 ±	126 ±
Strength in weft (MPa)	N/C ±	N/C ±
Failure strain in warp (%)	1.7 ±	3.2 ±
Failure strain in weft (%)	N/C ±	N/C ±
Standards	ISO 527	SO 14125

(1) Measured between 0 and 0,1% strain

(2) Measured between 0,3 and 0,5 % strain

#### RECOMENDED STORAGE AND USE CONDITIONS

Keep it in the plastic bag

#### ADDITIONNAL INFORMATION

This range of flax reinforcements has been developed to mainly enhance the vibration, absorption qualities, mechanical properties, weight reduction and aesthetic aspect of composite parts.



## Description of the fabric

Property	Unit	Standard	Value
<i>COMPOSITION</i> Reinforcing fiber : Flax <input checked="" type="checkbox"/> Hemp <input type="checkbox"/>	VOL %		100 ±
<i>AREAL WEIGHT</i>	g / m <sup>2</sup>	ISO 3801	318 ±
<i>AREAL VOLUME</i> *	mm <sup>3</sup> / mm <sup>2</sup>	Calculation	0.219 ±
<i>THICKNESS</i>	mm	ISO 5084	0.3 ±
<i>WEAVE STYLE</i>			Twill 2/2
<i>YARNS / CM</i>	(warp)	ISO 4602	12.1 ±
<i>PICKS CM</i>	(weft yarns)	ISO 4602	10.2 ±
<i>WEIGHT DISTRIBUTION</i>	%		weft : 44.3 ± warp : 45.7 ±
<i>STANDARD WIDTH</i>	cm	ISO 5025	103 ±

$$*AREAL VOLUME = \frac{\text{areal weight}}{\text{density}} \times \frac{1}{1000}$$

A glass fiber weave of 200 g / m<sup>2</sup> has an areal volume of 0,079 mm<sup>3</sup> / mm<sup>2</sup>, while a flax weave of 200 g/m<sup>2</sup> has an areal volume of 0,138 mm<sup>3</sup> / mm<sup>2</sup>

### TREATMENT

No treatment

Compatibilised for use with lineo patented technology to avoid moisture uptake and ensure good processability

Other treatments \_\_\_\_\_

Purpose of treatment \_\_\_\_\_

Sizing \_\_\_\_\_



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### Description of the yarns / rovings

	UNIT		WARP	WEFT
TYPE OF YARNS / ROVINGS	half wet spin yarns		half wet spin	half wet spin
COMPOSITION	VOL %		EU <input checked="" type="checkbox"/> NON-EU <input type="checkbox"/>	EU <input checked="" type="checkbox"/> NON-EU <input type="checkbox"/>
Reinforcing fiber :			100 ±	100 ±
Flax <input type="checkbox"/> Hemp <input type="checkbox"/>	Brand name :		EU <input checked="" type="checkbox"/> NON-EU <input type="checkbox"/>	EU <input checked="" type="checkbox"/> NON-EU <input type="checkbox"/>
Matrix fiber			±	±
DENSITY	g/cm <sup>3</sup>		1.45 ±	1.45 ±
		Standard		
LINEAR DENSITY	Tex (g/km)	ISO 1973	138.9 ±	138.9 ±
TORSION	Twists / m	ISO 17202	N/C ±	N/C ±