



Technical datasheet 2016

FLAXPLY BL550

Technical datasheet for weaves

MECHANICAL PROPERTIES OF WOVEN FABRIC COMPOSITE VF (%)	TENSION 50 ±	FLEXURAL 50 ±
Density (g/cm ³)	1.3 ±	1.3 ±
Modulus in warp direction (GPa)	E1= 12.2 ± (1) E2= ± (2)	E1= 10.9 ± (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)	102 ±	105.9 ±
Strength in weft (MPa)	N/C ±	N/C ±
Failure strain in warp (%)	1.6 ±	1.7 ±
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
COMPOSITION Reinforcing fiber : Flax <input checked="" type="checkbox"/> Hemp <input type="checkbox"/>	VOL %		100 ±
AREAL WEIGHT	g / m ²	ISO 3801	578 ±
AREAL VOLUME *	mm ³ / mm ²	Calculation	0.398 ±
THICKNESS	mm	ISO 5084	0.6 ±
WEAVE STYLE			Twill 2/2
YARNS / CM	(warp)	ISO 4602	7.6 ±
PICKS CM	(weft yarns)	ISO 4602	7 ±
WEIGHT DISTRIBUTION	%		weft : 47.9 ± warp : 52.1 ±
STANDARD WIDTH	cm	ISO 5025	103 ±

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

density 1000

A glass fiber weave of 200 g / m² has an areal volume of 0,079 mm³ / mm², while a flax weave of 200 g/m² has an areal volume of 0,138 mm³ / mm²

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 <input type="checkbox"/>	100 <input type="checkbox"/>
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		<input type="checkbox"/>	<input type="checkbox"/>
DENSITY	g/cm ³	1.45 <input type="checkbox"/>	1.45 <input type="checkbox"/>
		Standard	
LINEAR DENSITY	Tex (g/km)	ISO 1973	384 <input type="checkbox"/>
TORSION	Twists / m	ISO 17202	N/C <input type="checkbox"/>
			N/C <input type="checkbox"/>