

Product description



FlaxTape® 100 is a patented 100% unidirectional reinforcement, designed for the fabrication of high mechanical performance and low environmental footprint parts.

Product nature	Unidirectional
Type of yarn/roving	Fibers
Nature/ Proportion/ Quality of fibers	Hackled long fibers of European flax
Nature of the stitching yarn	Patented consolidation without stitching yarn

Product properties

Property	Value	Unit	Standard
Moisture content	9 ±1	%	NF EN ISO 3344
Surface weight	100 ±10 ¹	g.m ⁻²	NF EN ISO 9073-1
Fiber density	1,45	g.cm ⁻³	-

¹ : Average of three 20*25cm taken across samples

Tensile mechanical properties²

Property	Data	Unit	Standard
	Fiber direction		
Tensile Strength	244 ±13	MPa	ISO 527-5
Young Modulus ²	20 ±1	GPa	ISO 527-5
Elongation at break	1,5 ±0,1	%	ISO 527-5
Thickness of 1 impregnated ply	0,22 ±0,02	mm	NF EN ISO 5084

² : Flax/Bio-epoxy composite at 32% ±1% of fibers volumic fraction made by vacuum infusion à 0,4mBar

³ : Modulus measured between 0,02 and 0,1% deformation



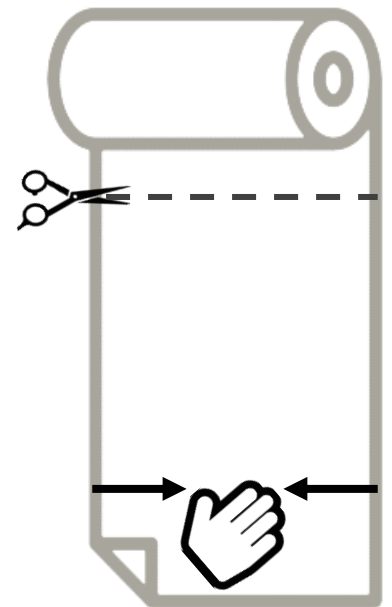
Recommandation for use

Cutting the material :

- * Use sharp cisors

Draping the material :

- * Dry draping is recommended
 - * Gathering the fibers crosswise helps to carry the veil
- For complex pieces, use a pattern and pre-cut.



Scan to watch our video explanation



Storage :

- * Leave the rolls in their bag until use
- * Use within 1 month after opening
- * Store in dry area and avoid direct sunlight

Manufacturing methods :

- ✓ Vaccum infusion
- ✓ RTM
- ✓ Hot melt
- ✓ Film stacking

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