

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	g.m ⁻²	NF G07-150
Fiber density	1,45	g.cm ⁻³	-

Tensile mechanical properties¹

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

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

² : Modulus measured between 0,02 and 0,1% deformation

Storage

Dry area and avoid direct sunlight

Manufacturing methods

Infusion, RTM, thermocompression, hand lay up, ...

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