



FIBRILIGHT™ F100

TECHNICAL DATA SHEET

Product description



Fibrilight™ F100 is a lightweight mat consolidated through an exclusive EcoTechnilin's process. Optimised for a finishing layer, it is designed for the manufacturing of low environmental footprint parts.

Product nature	Non woven mat
Type of yarn/roving	Fibers
Nature/ Proportion/ Quality of fibers	Short fibers of European flax
Consolidation method	Exclusive consolidation process

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
	CD	MD		
Tensile Strength	53 ±4	100 ±7	MPa	ISO 527-5
Young Modulus ²	6 ±1	10 ±1	GPa	ISO 527-5
Elongation at break	1,4 ±0,2	1,5 ±0,2	%	ISO 527-5
Thickness of 1 impregnated ply	0,20 ±0,01		mm	NF EN ISO 5084

¹ : Flax/Bio-epoxy composite at 40% ±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, ...

EcoTechnilin

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