

Product description



Kairos Flower Preform 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	40% Short fibers of European flax 60% PLA fibers
Consolidation method	Exclusive consolidation process

Product properties

Property	Value	Unit	Standard
Moisture content	9 ±1	%	NF EN ISO 3344
Surface weight	150 ±15	g.m ⁻²	NF G07-150
Flax fiber density	1,45	g.cm ⁻³	-
PLA fiber density	1,25	g.cm ⁻³	-

Tensile mechanical properties¹

Property	Data		Unit	Standard
	CD	MD		
Tensile Strength	34 ±2	78 ±3	MPa	ISO 527-5
Young Modulus	3 ±1	8 ±1	GPa	ISO 527-5
Elongation at break	1,5 ±0,2	1,6 ±0,3	%	ISO 527-5
Thickness of 1 impregnated ply	0,15 ±0,01		mm	NF EN ISO 5084

¹ : KairLin thermocompression with 24 ply/ Vf= 29%/ d=1,07 ±0,01

Storage

Dry area and avoid direct sunlight

Manufacturing methods

Thermocompression, ...

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