

Product Description



FlaxPreg T-UD is a 100% pre-impregnated unidirectional reinforcement with 50% epoxy resin by weight, designed for the manufacturing of composite parts with high mechanical performance and low environmental footprint.

Product nature	Pre-impregnated unidirectional
Type of yarn/roving	Fibers
Nature/ Proportion/ Quality of fibers	Long hackled fibers
Composition	100 g.m ⁻² of Fiber Areal Weight (FAW) with 100 g.m ⁻² of epoxy resin
Recommended curing cycle	1 hour at 120°C

Product properties

Property	Value	Unit	Standard
Surface weight	200 ±20	g.m ⁻²	NF G07-150
Fiber density	1,45	g.cm ⁻³	-

Tensile mechanical properties¹

Property	Data		Unit	Standard
	⊥ to the fibers	// to the fibers		
Tensile Strength	22 ±2	387 ±12	MPa	ISO 527-5
Young Modulus ²	4 ±1	35 ±1	GPa	ISO 527-5
Elongation at break	0,5 ±0,1	1,5 ±0,1	%	ISO 527-5
Thickness of 1 impregnated ply	0,15 ±0,01		mm	NF EN ISO 5084

¹ : Flax/Bio-epoxy composite at 48% ±2% of fibers volumic fraction made by thermocompression for 1 hour at 120°C at a pressure of 3 Bars

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

Storage

Shelf life of 18 months at -18°C

Shelf life of 6 weeks at 20°C

Manufacturing methods

Thermocompression,
Out-of-autoclave curing, autoclave curing, ...

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