

ORTHOFLAX[®] UD 300

Non-crimp unidirectional flax fabric with fibers oriented at 0°, suitable for manufacturing fiber reinforced composite products with a high performance and a low environmental impact.

Technical specifications

	Dry fibers	Composite*	
Tension	Modulus // to fibers	61 GPa	34.6 GPa
	Modulus ⊥ to fibers	6.4 GPa	4.7 GPa
	Strength // to fibers	580 MPa	329 MPa
	Strength ⊥ to fibers	-	26 MPa
	Strain to failure // to fibers	1%	1%
	Strain to failure ⊥ to fibers	-	0.5%
Flexural	Modulus // to fibers	57 GPa	57 GPa
	Modulus ⊥ to fibers	6.3 GPa	6.3 GPa
	Strength // to fibers	663 MPa	663 MPa
	Strength ⊥ to fibers	-	-
	Yield strength // to fibers	348 MPa	198 MPa
Density	1350 kg/m ³		

Fabric construction

Fiber type: Flax (EU)
Construction: 0°
Fiber tex: 105 TEX
Fabric weight: 300 gsm +/-5%
Weft thread: textured polyester
 1/cm

Measurements

Standard width: 1150mm
Roll length: 5, 10, 20, 50m

* Composite properties measured on samples (54% fiber volume), with Epoxy.

Ecological aspects

Flax fibers are grown in France and Belgium, it is a regional resource. Production of flax has a negative global warming indicator because of the CO₂ sequestration by photosynthesis.

Reference and packaging

ORTHOFLAX UD 300 - 5mL	UD 005
ORTHOFLAX UD 300 - 10mL	UD 010
ORTHOFLAX UD 300 - 20mL	UD 020
ORTHOFLAX UD 300 - 50mL	UD 050

Customs' code

ORTHOFLAX UD 300	53091110
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