

# ORTHOFLAX® SERGE 2/2

Bidirectional fabric with fibers oriented at 0° and 90°, suitable for manufacturing fiber reinforced composite products with a high performance and a low environmental impact. ORTHOFLAX SERGE 2/2 has a very good drapability and is ideal for complex shapes. High laminate stiffness is obtained thanks to the low crimp twill 2/2 weave as well as zero-twist yarns.

## Technical specifications

	Dry fibers**	Composite*
Flexural	Modulus // to fibers	18.1 GPa
	Modulus ⊥ to fibers	-
	Strength // to fibers	224 MPa
	Strength ⊥ to fibers	-
	Yield strength // to fibers	122 MPa
Density	1350 kg/m <sup>3</sup>	

## Fabric construction

**Fiber type:** Flax (EU)  
**Construction:** 0°/90°, balanced twill 2/2 weave  
**Fiber tex:** 300 TEX  
**Fabric weight:** 300 gsm +/-5%, 150gsm in each direction

## Measurements

**Standard width:** 1000mm  
**Roll length:** 5, 10, 20, 50m

\* Properties measured on samples with 6 layers aligned at 0°, manufactured in a press with 6 bars pressure (52% fiber weight, 48% fiber volume fraction), 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 CO<sub>2</sub> sequestration by photosynthesis.

## Reference and packaging

ORTHOFLAX SERGE 2/2 300 (1270mm) 5mL	SE1 005
ORTHOFLAX SERGE 2/2 300 (1270mm) 10mL	SE1 010
ORTHOFLAX SERGE 2/2 300 (1270mm) 20mL	SE1 020
ORTHOFLAX SERGE 2/2 300 (1270mm) 50mL	SE1 050

## CUSTOMS' CODE

ORTHOFLAX SERGE 2/2 300	53091110
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