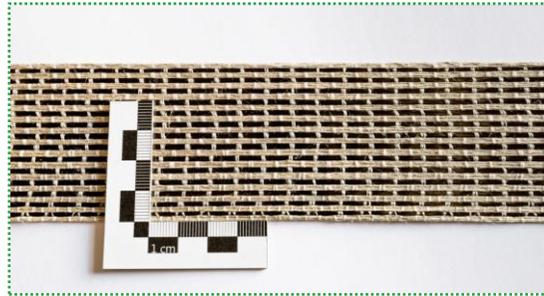


ampliTex[®] Art.
 No. 5027 tape
 fabric 225 gsm



Product description

ampliTex flax-carbon fusion UD tape, non-crimp, 52 mm width, 225gsm.

Fabric construction

Fibre type: Flax (EU)/ Carbon
 Construction: UD tape
 Fabric weight : 225gsm

Ply construction

52% Carbon
 48% Flax

Weft yarn

Textured polyester

Measurements

Standard width: 52 mm
 Standard roll length: 50 m

Performance advantage

The fusion tape brings the best of two worlds: the very high stiffness of carbon and the light weight and damping of flax. Also both fibers have a very good compatibility, since they have similar thermal expansion coefficient and failure strain.

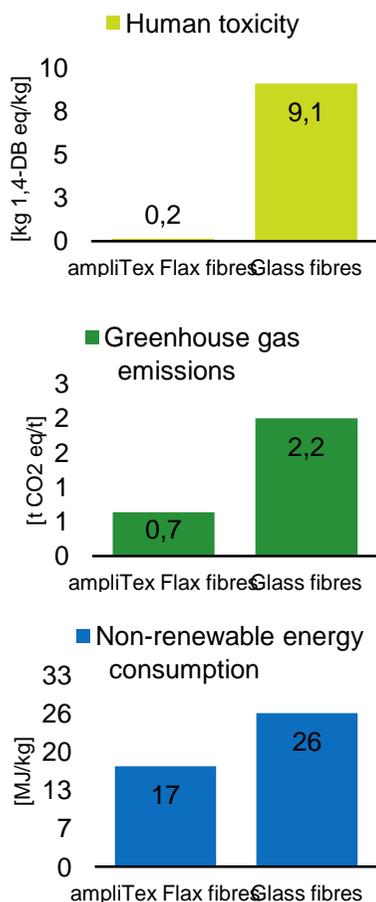
	Technical specifications	Composite **
Flexural	Modulus // to fibres	75 GPa
	Strength // to fibres	613MPa
	Yield strength // to fibres	430MPa
	Density	1.58

Properties measured in bending with 7 layers infused with R&G resin Typ L, Vf 50%

Ecological aspects

Grown in France and Belgium, the flax used at Bcomp is a regional resource.

Production of flax has a negative global warming indicator because of [the](#) CO₂ sequestration by photosynthesis.



Processing guidelines

- Good compatibility with epoxy and polyester
- Near-zero CTE,
- Compatible with infusion- based processes (vacuum infusion, RTM), wet layup, bladder inflation moulding (BIM) and compression moulding
- [Flax fibers always contain some humidity at ambient conditions. Some resins \(especially polyesters\) are sensitive to moisture and may badly polymerize or create bubbles. In that case, dry the fabrics before use \(110°C for 15 minutes\)](#)
- Fibre weight fraction of 65% can be reached with process pressure > 5 bars. However, the flax fibres absorb a lot of resin when [hand](#)-laminating the fabric and it tends to look “dry” (unless too much resin is used) before pressure is applied. We recommend controlling [the](#) amount of [resin](#) used for laminating and [impregnating](#) with 45 [to](#) 55% resin in weight. Excess resin comes out while pressing the fabric.

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