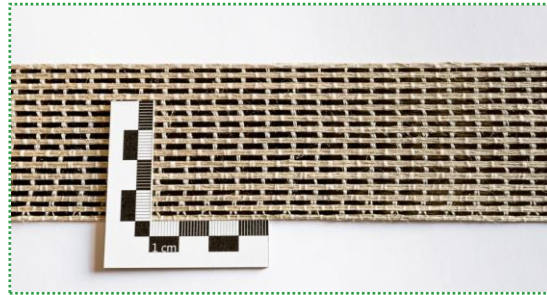


ampliTex[®] Art.
 No. 5027 tape
 fabric 225 gsm



Product description

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

Fabric construction

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

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. Both fibers also have a very good compatibility, since they have similar thermal expansion coefficient and failure strain.

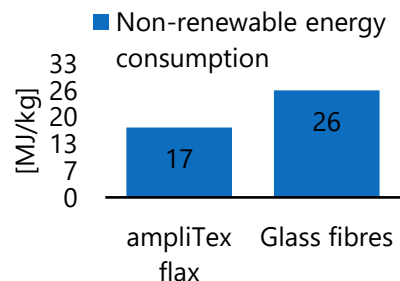
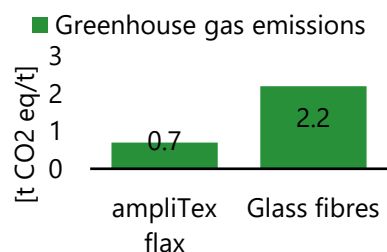
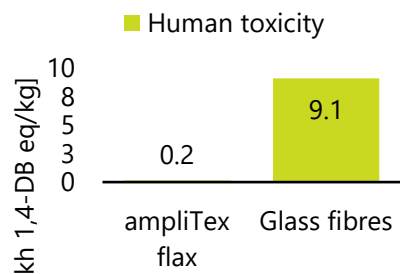
	Technical specifications	Composite **
Flexural	Modulus // to fibres	75 GPa
	Strength // to fibres	613 MPa
	Yield strength // to fibres	430 MPa
	Density	1580 kg/m ³

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

Ecological aspects

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

Production of flax has a negative global warming indicator because of 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.

For further details please contact us on: t +41 (0)26 558 84 02 | email: contact@bcomp.ch