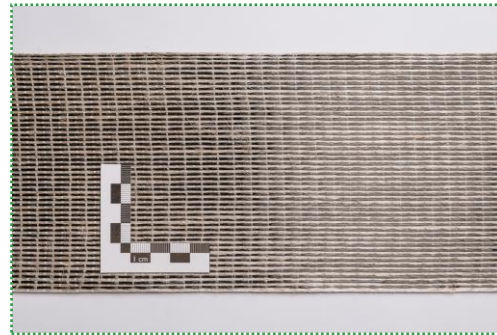


ampliTex<sup>®</sup>  
 Art. No. 5027-4  
 UD tape fabric,  
 170 gsm



## Product description

ampliTex flax-carbon fusion UD tape, non-crimp, 120 mm width, 170 gsm

### Fabric construction

Fibre type: Flax (EU) / Carbon

Construction: UD tape 0°

Yarn tex: 200 TEX

Surface weight: 170 gsm

51% Flax / 49% Carbon

Weft yarn: Textured polyester

### Dimensions

Standard width: 120 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 fibres also have a very good compatibility, since they have similar thermal expansion coefficient and failure strain.

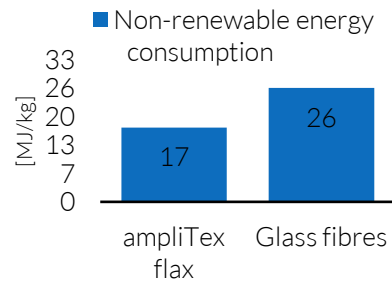
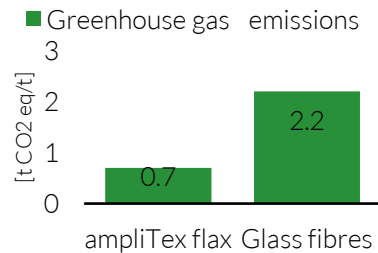
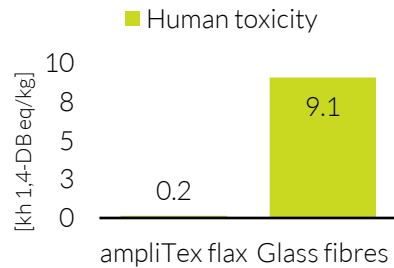
|          | Technical specifications    | Composite *            |
|----------|-----------------------------|------------------------|
| Flexural | Modulus // to fibres        | 66.6 GPa               |
|          | Strength // to fibres       | 730 MPa                |
|          | Yield strength // to fibres | 642 MPa                |
|          | Density                     | 1340 kg/m <sup>3</sup> |

\*Measured on specimens made by vacuum infusion, 7 layers of fabric, resin 5052 from Huntsman, 50%Vf

## 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 the CO<sub>2</sub> sequestration by photosynthesis.



## Processing guidelines

- Great 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 fibres 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 50% can be reached with process pressure > 5 bars. However, the 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 adhesive used for laminating and impregnating it with 50 to 60% 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](mailto:contact@bcomp.ch)