



Stratalium® / Graphic elegance of carbon

High performance & Aesthetic Eco-sourced Material



Description

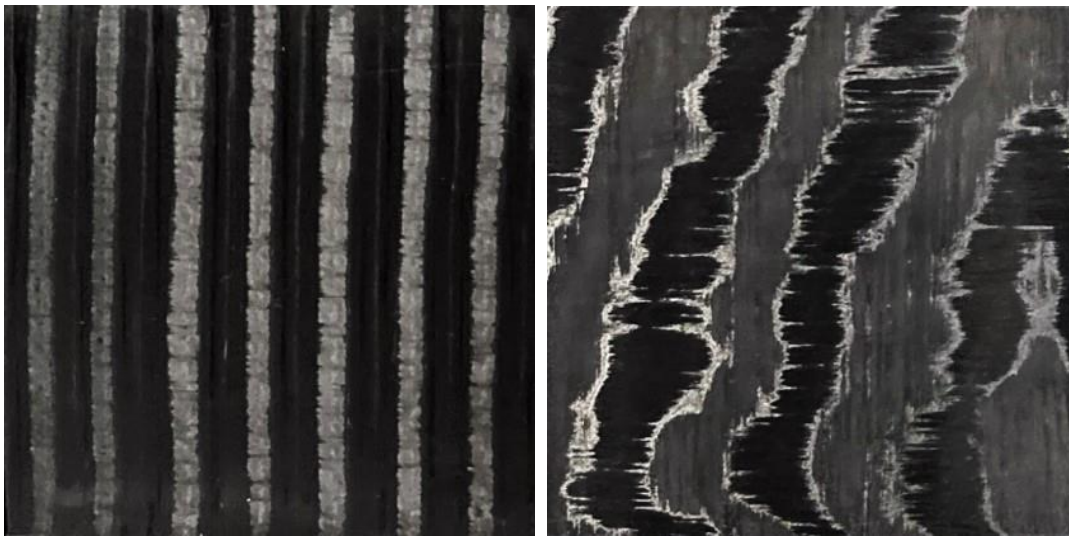
Lavoisier Composites develops solutions to recover post-production composite by-products while maximizing the retention of original properties.

Stratalium® is **100%** made of selected **Carbon Fiber** Uni-Directional prepreg material (UD) sourced from the aerospace supply-chain.

The stacking of continuous UD plies according to a precise and accurate sequence enables obtaining quasi-isotropic mechanical properties.

Baseline color is black/anthracite, but it is possible to create a colored or metallized inter-ply of the material.

Illustration



Overall Features

- 100% eco-sourced
- Continuous carbon fibers
- Adapted for extended skin contact
- Easily machinable to obtain desired geometry and surface aspect for small productions
- Moldable to gentle shapes and curvatures
- Stable and UV resistant components
- Water resistant material

Machining parameters

Stratalium® is a hard stratified composite material formulated to withstand at least 120°C service temperature. The high carbon fiber content requires adopting special machining parameters.

Life Cycle Assessment (LCA)

No specific LCA has been made on the various variants of Stratalium® product range.

Based on a zero initial impact, as this material is recovered from a first cycle, and knowing the standard manufacturing process, it's possible to assess that Carbonium® reduces the emission of CO₂ up to 20 kg for each kg used compared to a virgin-based material.



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Mechanical properties

A dedicated mechanical characterization is still to be made on each product variant of Stratalium®. Generic information about Stratalium® is provided in the table below based on common data available.

Properties	Values
Tensile strength (MPa)	280
Young modulus (GPa)	40
Density (g/cm³)	1,6

Recommendation

For any specific request, do not hesitate to contact us by e-mail at bonjour@lavoisier-composites.com
Alternatively, you can reach us via the contact page of our website:
<https://www.lavoisier-composites.com/en/contact-page/>

Disclaimer

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