



## SUPERCOMP™ Continuous Carbon Fiber Reinforced with Z-axis Milled Fiber

Light and stiff, **SUPERCOMP** reduces damage and provides **vibration damping** that will **edge out your competition.**

### Supercomp by Boston Materials

Using a patented process, Boston Materials reinforces carbon fiber materials with Z-axis aligned recycled fiber to manufacture Supercomp. This breakthrough material enables manufacturers of ski and snowboard laminates to **reduce cost, increase performance and meet sustainability targets.** Lower in cost than traditional carbon fiber, Supercomp is a lightweight alternative to the heavier metal vibration damping layer.

Supercomp reinforcements are commercially available as dry reinforcements for use with your specific resin system or as a prepreg. Both with unidirectional (UD) and woven carbon fabric. Supercomp reinforcement can be slit into narrow tapes (down to one inch) without fraying or the need for stitching.

#### VIBRATION DAMPING

Millions of vertically aligned carbon fiber whiskers **dissipate energy** quickly to **significantly reduce chatter** in your skis or snowboard.



#### STIFFNESS

Create novel **micro-sandwich core** structure with Z-axis recycled carbon fiber to **improve flexural stiffness by 25%.**



#### NO FRAYING

Supercomp **can be cut easily without fraying**; allowing for finer features in pre-forms. The Z-axis milled carbon fiber **holds the continuous fiber together** during cutting and handling.



#### RECYCLED AEROSPACE FIBER

Supercomp products are made with **50% milled carbon fiber.** The milled fiber is sourced from scrap generated by aircraft manufacturers. This alternative source for carbon fiber enables a **cost reduction** over commercially available carbon fiber products.



#### REINFORCEMENT / DAMAGE & WEAR TOLERANCE

Even when damaged, Supercomp provides **40% of the original strength** – eliminating catastrophic failure to greatly enhance safety. Supercomp can be used to **reinforce high wear surface and around drilled holes** where splitting can occur.



#### RESIN WICKING

Supercomp has **vertical microcapillaries** that quickly wick resin through the thickness of the reinforcement, giving **consistent wet-out.**



### What to Expect with Supercomp?