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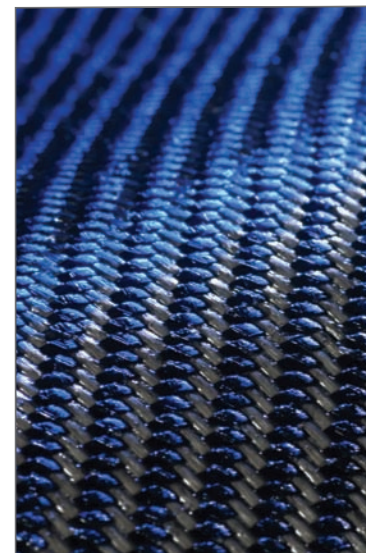
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SE 84 Nano

High Performance Prepreg

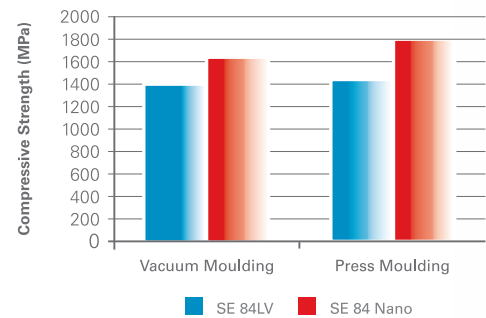


SE 84 Nano

High Performance Prepreg

SE 84 Nano is a next generation carbon prepreg specifically designed to provide enhanced properties that will be most valued by producers of high performance components.

Utilising 3M™ Matrix Resin within a proprietary formulation, SP-High Modulus have achieved a product that is optimised to provide 20% higher compressive strength whilst maintaining the attributes of SE 84LV. SP-High Modulus expect that designers, engineers and builders of sailing boats at the cutting edge of performance will seek to use SE 84 Nano to achieve lighter parts for the same strength or a strength bonus for stiffness dominated applications.



SE 84 Nano has been formulated to retain the same handling and flexible cure envelope as SE 84LV from 80°C up to 120°C. It is compatible with vacuum bag, press-moulding, autoclave or other pressure moulding processes. When pressure moulded, compressive strength is increased by 25% vs SE 84LV.



Strength-driven applications

SE 84 Nano delivers a 20% increase in compressive strength which directly translates to a weight saving for components with a strength-driven design. Components expected to benefit from SE 84 Nano are:

- ① JibTrack Beam
- ② Local Reinforcing Tapes
- ③ Rudders
- ④ Keel Structure
- ⑤ Bulkhead / Frame Edge Capping
- ⑥ Daggerboard Cappings
- ⑦ Mast & Keel Bulkheads
- ⑧ Hull & Deck Beam Capping
- ⑨ Bowsprit

Stiffness-driven applications

For the same stiffness SE 84 Nano will provide a 20% increase in strength. Stiffness dominated components tend to have high load fittings. Using SE 84 Nano for these components will deliver a 20% strength bonus globally whilst reducing material use and increasing design flexibility around fittings.

Availability

SE 84 Nano is available with HEC and HM fibre types. For specific product properties and processing information please refer to the SE 84 Nano Technical Data Sheet. Please speak with your local sales representative to discuss samples, pricing and availability.