

Vectorply Corporation introduces heaviest VectorUltra product

PHENIX CITY, Ala. – Vectorply Corporation is pleased to introduce the latest product addition to the VectorUltra line of advanced composite reinforcements. The 94 oz/yd² carbon quadraxial fabric, named C-4QX 9400, is an all-standard modulus carbon fiber quasi-isotropic reinforcement fabric that is excellent fit for tooling, panel, and thick section advanced composite applications.

Vectorply's C-4QX 9400 is constructed utilizing a balanced and symmetric construction (mirror image), [90°/0°/45°/-45°] stacking sequence of approximately 400gsm carbon plies. The architecture of the fabric provides a very low and consistent coefficient of thermal expansion (CTE) and an un-coupled (non-potato-chipping) laminate, an ideal combination for high-performance composite tooling, which experience large temperature changes.

The symmetric construction allows panel manufacturers to fabricate ultra-flat panels, and the 3200gsm areal weight allows for minimal labor requirements for building thick cross sections. In addition, the quasi-isotropic nature also provides high bearing strength, which combined with its high areal weight, is a perfect material for inserts and hard points requiring mechanical fasteners.

The C-4QX 9400 fabric is a versatile option for manufacturers since it can be used in both prepreg and resin infusion applications. It is also available in a "tapered" option along the fabric width, allowing for scarf joining and consistent thickness across joints.

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