

To the media:

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CSR Promotion & Public Relations Department

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Carbon Fiber Reinforced Plastic/Foam Core Composites

ST-LAYER™ Used as Components for Latest Drones

ST-LAYER of Sekisui Plastics Co., Ltd. (Head Office: 2-4-4 Nishi-tenma, Kita-ku, Osaka, Japan; President: Masato Kashiwabara) has been used as body parts for the latest drone model of a leading drone service company.

1. Features of ST-LAYER

ST-LAYER is a composite material of the foam core, developed by Sekisui Plastics, and carbon fiber reinforced plastics ("CFRP") so it has the both characteristics.

① Lightweight

It is lighter than metallic materials and simplex CFRP with the equivalent strength.

② High strength

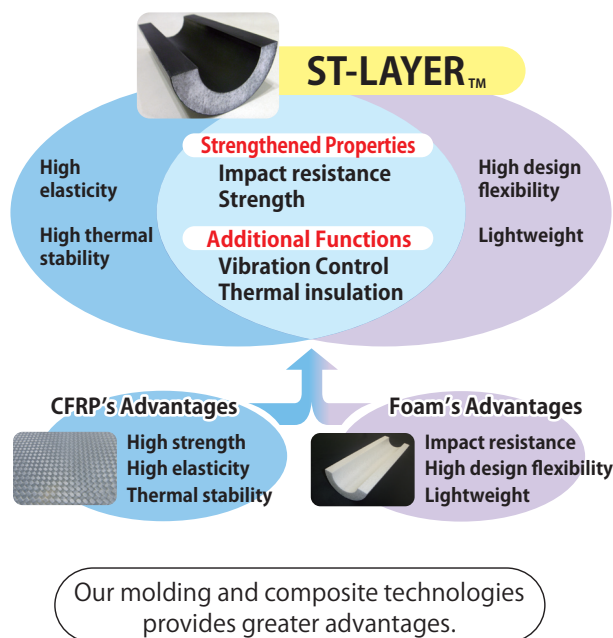
It has higher strength and toughness (higher fracture toughness) than simplex CFRP.

③ Function imparting

Functions such as vibration damping, electromagnetic shielding and X-ray transparency can be imparted.

④ Customization

Customization is available to meet applications and specifications by selecting foam cores and realizing the flexible design technology.



2. Background

ST-LAYER has been used as structural components for the latest drone model released by a leading drone service company in May 2017. We could achieve the improvement of lightweight and vibration control that were disadvantages of conventional CFRP. As a result, we believe that ST-LAYER garnered immense praise because it may improve flight stability and flying distance.



A drone using ST-LAYER

3. Future Development

We are targeting sales of 3 billion yen in FY2020 by expanding the business in various fields (as structural components for industrial robots and automobile components) that require lightweight and high strength which ST-LAYER can provide.