

## NEWS RELEASE

### **Tenax™ TPCL and Teijin's Panlite® Sheet are used for the housing of the world's lightest (\*) portable displays VAIO Vision+™ developed by VAIO**

**Tokyo, Japan, July 29, 2024:** [Teijin Limited](#) announced today that Teijin's *Tenax*™ TPCL, a carbon fiber intermediate material, and its *Panlite*® Sheet, a polycarbonate (PC) product, the housing of the world's lightest (\*) portable displays developed by VAIO Corporation (hereinafter VAIO). The *VAIO Vision+™ 14* and the *VAIO Vision+™ 14P*, subsequently referred to collectively as *VAIO Vision+™* were launched by the VAIO in Japan early July.

The characteristics of the Teijin materials have made it possible to achieve the world's lightest weight portable display, weighing approximately 325g, and with its thinnest point being approximately 3.9mm.

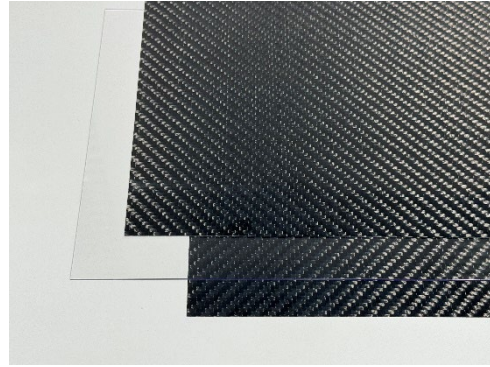


*VAIO Vision+™* is a portable display that uses a carbon fiber reinforced thermoplastic resin housing.

*Tenax*™ TPCL intermediate, used for the *VAIO Vision+™* housing's top and bottom layers of the sandwich construction, is a sheet-like material made of woven carbon fiber impregnated with thermoplastic resin. It is lightweight, resistant to heat and impact, strong and rigid, and also meets flame retardancy requirements for electrical products. In addition, *Panlite*® Sheet, made from PC resin and used for the middle layer, has excellent dimensional stability, light weight and impact resistance.



Complex, three-dimensional shape of the housing achieved without metal parts



Tenax™ TPCL is used for the housing (top & bottom layers) and Panlite® Sheet for the middle layer

## Reduced CO<sub>2</sub> and easier manufacturing

Conventional housings use metal parts for assembly, which need to be installed during the manufacturing process. However, the housing of the new displays, which has a structure that sandwiches *Panlite*® Sheet between *Tenax*™ TPCL layers, achieves the shape and strength of the connections necessary for assembly without the need for metal parts. This material solution makes it possible to manufacture complex, three-dimensional shapes in a single molding step, which helps reduce the number of steps required to manufacture the housing, and also cuts CO<sub>2</sub> emissions.

The Teijin Group aims to become a "a company that protects the global environment," embodying its long-term vision of becoming "a company that supports the society of the future," and will continue to utilize a wide range of highly functional materials to provide solutions in a variety of fields.

(\*) For mobile displays with a screen size of 14.0 inches or larger. As of June 14, 2024 (based on research by Stella Associa)

## About the Teijin Group

Teijin (TSE: 3401) is a technology-driven global group with two core businesses: high-performance materials and healthcare solutions. Established in 1918 as Japan's first rayon manufacturer, Teijin today comprises some 170 companies employing 20,000 people in 20 countries. Through "Human Chemistry, Human Solutions," Teijin relentlessly strives to aims to be a company that supports the society of the future by protecting the global environment and addressing the needs of people and communities. Teijin posted consolidated sales of JPY 1,032.8 billion (USD 6.6 billion) and total assets of JPY 1,251.0 billion (USD 8.0 billion) in the fiscal year ending March 31, 2024.

## Press Contact

Corporate Communication Department

Teijin Limited

[pr@teijin.co.jp](mailto:pr@teijin.co.jp)