

PRESS RELEASE

Teijin's Carbon Fiber and Resin Used in World's First Laptop-sized Automated People Mover

Tokyo, Japan, August 11, 2020 --- [Teijin Limited](#) announced today that thermoplastic materials made with its *Tenax*[®] carbon fiber and *Panlite*[®] polycarbonate alloy resin have been adopted for use in the world's first laptop-sized automated people mover (APM), the *WALKCAR*[®], developed by [cocoa motors. Inc.](#)



The *WALKCAR*[®], which is small enough to be carried in a bag, measures just 21.5 cm by 34.6 cm, roughly the size of a 13-inch laptop computer, and weighs only 2.9 kg. The *WALKCAR*[®] can travel about 7 km at a maximum speed of 16 km/h on a single charge. Operated by simply shifting one's center of gravity, the APM requires neither a handle nor controller, and stops automatically as soon as the operator steps off.

The sturdy but lightweight *WALKCAR*[®] is made with Teijin's thermoplastic carbon fiber reinforced laminates *Tenax*[®] TPCL, thermoplastic woven fabric *Tenax*[®] TPWF and polycarbonate alloy resin *Panlite*[®]. Compared to steel, *Tenax*[®] offers 10 times the strength at just one quarter of the weight. *Panlite*[®] polycarbonate resin boasts some 200 times more impact resistance than fiberglass but only half of the weight. The impressive characteristics of these Teijin materials is why the amazing *WALKCAR*[®] is able to combine low weight and high durability.

The *WALKCAR*[®] went on sale in Japan in June and overseas sales will begin from August 11. Orders can be placed via the cocoa motors.' website.

<https://en.cocoamotors.com/>

Teijin develops high-performance materials and offers them in solutions targeting diverse fields under a long-term vision of becoming a company that supports the society of the future.

About the Teijin Group

Teijin (TSE: 3401) is a technology-driven global group offering advanced solutions in the fields of environmental value; safety, security and disaster mitigation; and demographic change and increased health consciousness. Originally established as Japan's first rayon manufacturer in 1918, Teijin has evolved into a unique enterprise encompassing three core business domains: high-performance materials including aramid, carbon fibers and composites, and also resin and plastic processing, films, polyester fibers and products converting; healthcare including pharmaceuticals and home healthcare equipment for bone/joint, respiratory and cardiovascular/metabolic diseases, nursing care and pre-symptomatic healthcare; and IT including B2B solutions for medical, corporate and public systems as well as packaged software and B2C online services for digital entertainment. Deeply committed to its stakeholders, as expressed in the brand statement "Human Chemistry, Human Solutions", Teijin aims to be a company that supports the society of the future. The group comprises more than 170 companies and employs some 20,000 people across 20 countries worldwide. Teijin posted consolidated sales of JPY 853.7 billion (USD 8.0 billion) and total assets of JPY 1,004.2 billion (USD 9.4 billion) in the fiscal year that ended on March 31, 2020.

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