

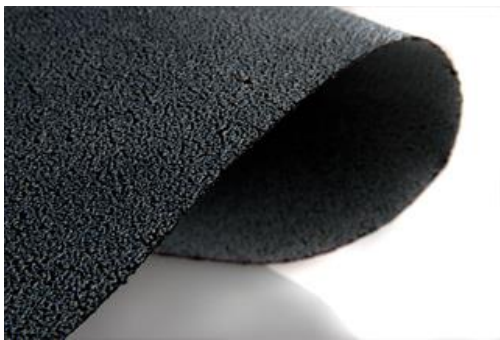


Human Chemistry, Human Solutions

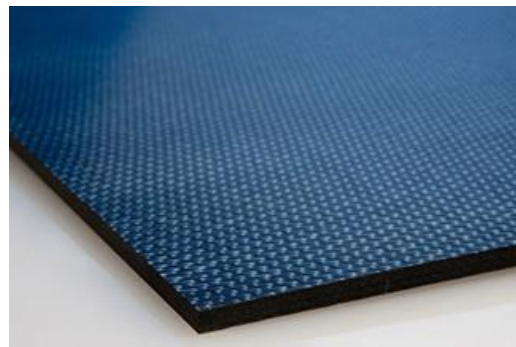
NEWS RELEASE

Tenax[®] Carbon Fiber Reinforced Thermoplastics Qualified by Collins Aerospace

Tokyo, Japan, October 9, 2020 --- [Teijin Limited](#) announced today that it has qualified its carbon fiber based materials *Tenax[®]* ThermoPlastic Woven Fabric (TPWF) and *Tenax[®]* ThermoPlastic Consolidated Laminate (TPCL) by [Collins Aerospace](#), a unit of [Raytheon Technologies Corporation](#), one of the world's leading manufacturers of aircraft structural components.



Tenax[®] TPWF



Tenax[®] TPCL

Tenax[®] TPWF is a woven carbon fiber fabric coated with a thermoplastic polymer and *Tenax[®]* TPCL are completely impregnated and consolidated sheets made of several layers of *Tenax[®]* TPWF.

The qualified product is based on woven high strength carbon fiber and polyetheretherketone (PEEK) polymer, which achieves high heat, impact and fatigue resistance, helps to reduce production costs and improve component manufacturing efficiency thanks to the potential of a rapid molding process. This material is suited for large-scale production of parts combined with high mechanical performance, such as structural components for aerospace.

Teijin has an existing strong business relationship with Collins Aerospace. As a proof, a facility of Teijin Carbon America, Inc., the company's core carbon fiber business in the U.S., was awarded Supplier Gold as the only fiber manufacturer worldwide for the supply of an oxidized PAN fiber (OPF) Pyromex[®] for aircraft brake-friction materials.



UTC Supplier Gold
The way forward

As one strategic focus of its medium-term management plan for 2020-2022, Teijin is intensively accelerating its development of mid- to downstream applications for aircraft, such as cost-effective carbon fibers with higher-tenacity and higher-tensile modulus, intermediate materials including *Tenax[®]* Dry Reinforcement carbon fiber materials

(*Tenax*[®] DR), carbon fiber thermoplastic unidirectional pre-impregnated tape (*Tenax*[®] TPUD), carbon fiber thermoplastic consolidated laminate (*Tenax*[®] TPCL) and thermoset prepreg. Going forward, Teijin intends to further strengthen its carbon fiber and its intermediate material business as a leading solution provider for aircraft applications, targeting annual sales in this field in excess of USD 900 million by around 2030.

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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