

The UBE Group's Strengths: Providing Social Essentials

Maintaining robust ties with customers by leveraging proprietary technologies to deliver products and technologies that underpin society



Employed in Toyota Mirai's pressurized hydrogen tank liner



The UBE Group draws on its long history and diverse businesses to contribute to social progress by creating products in each of its business areas that are social infrastructure essentials. Another key strength is that we have amassed a range of technologies in moving forward with our customers over the years, thereby generating solid trust.

Proprietary Technologies and Products That Are Social Essentials

● The chemicals business helps resolve myriad social issues, notably by reducing environmental impacts, making living more convenient, and enhancing healthcare. We offer advanced food and other packaging films, for example, as well as nylon that help lighten automobiles. We provide separators for LiB materials underpinning vehicle electrification, and synthetic rubber that enhances fuel economy from tires. We also provide polyimide resins for ICT applications and high-performance coatings that extend the durability and service lives of paints and furniture. In addition, we produce pharmaceuticals that accelerate efforts to serve unmet medical needs and demand for small dosages and highly pharmacologically active agents.

Our outstanding chemical technologies stem from innovative research over the years to deliver high added value. Many of our businesses have operated for decades, earning solid reputations among customers worldwide for developing technologies matching their needs, amassing expertise, and building trust.

Our newest R&D facility is the Osaka Research & Development Center, which we opened in 2016. The center has enhanced collaboration with customers and universities in the Kansai area, and will contribute to our progress in the years ahead.

● Our construction materials business offers an array of social infrastructure products that foster economic progress and safeguard societies, including cement and ready-mixed concrete for buildings, bridges, dams, and seawalls. Various

Leveraging a long history and diverse proprietary technologies to help resolve social issues





UBE NYLON Employed in Toyota Mirai's Pressurized Hydrogen Tank

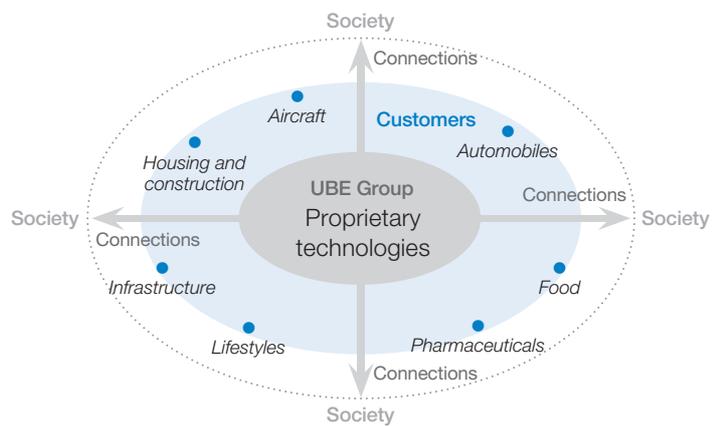
The Mirai fuel cell vehicle (FCV) employs a pressurized hydrogen tank incorporating UBE NYLON 1218IU, a material for hydrogen tank liners that Toyota jointly developed with us.

UBE NYLON 1218IU meets strict standards as a resin liner material for hydrogen tanks. It delivers outstanding hydrogen permeation prevention as a polyamide 6 (Nylon 6) resin, resists sudden tank temperature changes from injecting and releasing hydrogen, and offers excellent impact resistance and other mechanical benefits in the extreme cold.



industrial waste is reused as raw materials and thermal energy in the cement manufacturing process, also contributing to waste recycling. The Group also fulfills social needs by harnessing its extensive port facilities, large ships, and plant network to supply customers around the nation.

- In the machinery business, we manufacture injection molding machines that make parts that contribute to a better environment by helping lighten conventional automobiles and boost the efficiency of EVs. We also produce industrial machinery for steelmakers and electric power companies and steel bridges for social infrastructure. In recent years, we have focused on enhancing maintenance, upgrades, and other after-sales services to help customers stabilize production and cultivate more sophisticated businesses.



Mirai hydrogen FCV. This is a testament to our ability to meet that automaker's exacting requirements for the plastic lining in this high-pressure tank and thereby help it to realize a low-carbon economy.

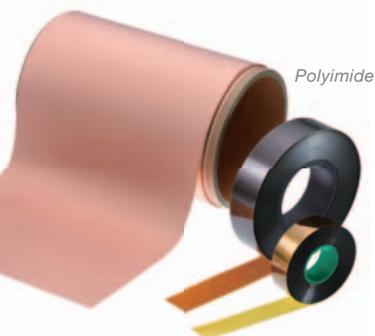
Collaborating with Customers to Contribute to Social Progress

Our technologies and quality help customers resolve social issues.

Toyota Motor Corporation, for example, employs our nylon in the hydrogen tank of its

The UBE Group will continue leveraging proprietary technologies and strong relationships with its customers to realize its corporate philosophy commitment to pursuing technology and embracing innovation to create value for the future and contribute to social progress.

Essential for social infrastructure and a recycling-based society



Polyimide

Cement, ready-mixed concrete



Highly regarded among automakers and other players in the global market for lineup that focuses on large models

Die-casting machines, injection molding machines

