ECOPET™
Quality from Waste

TEIJIN

Human Chemistry, Human Solutions

## Transforming waste into a necessary material

TEIJIN

Putting our commitment to the environment into one fiber

Under the corporate mission to contribute to the realization of a beautiful environment and a rich future,
we have long conducted research on how to recycle waste into useful resources.
In 1995, our efforts finally resulted in ECOPET™, a polyester fiber and product brand created by
recycling used plastic PET bottles, clothing, and fiber waste. Today, the fiber is used in every aspect of daily life and continues to evolve.

To date, we have contributed to environmental protection by producing a cumulative total of
500,000 tons or more of recycled fibers.

500,000t

Total production of ECOPET™

1995   2020

Cumulative total of
500,000 tons
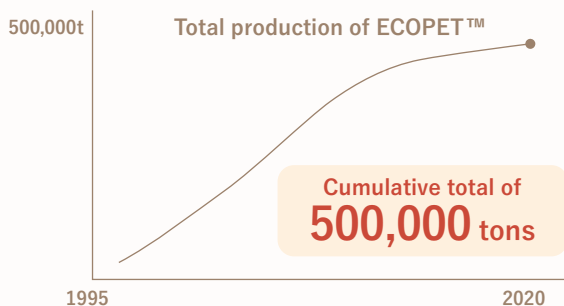
Cumulative total of
25 billion
plastic PET bottles

Cumulative total of
2.5 billion
T-shirts

*As of 2020

ECOPET™ Brand Website
https://ecopet.info/en/

By leveraging Teijin's recycle technology and varied fibers, ECOPET™ has been converted into a wide variety of products.

Discarded plastic PET bottles, clothes, and fiber waste → Recycling → Polyester fibers
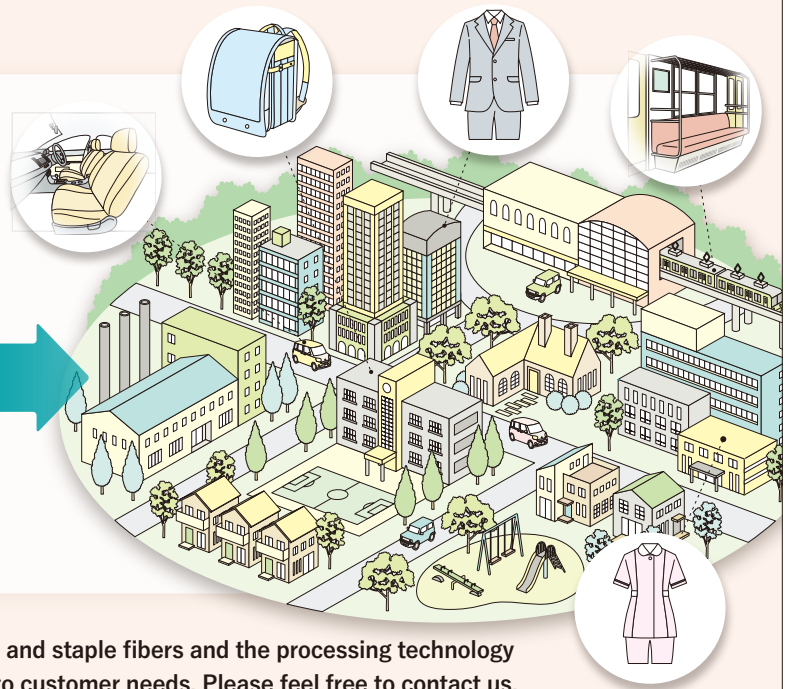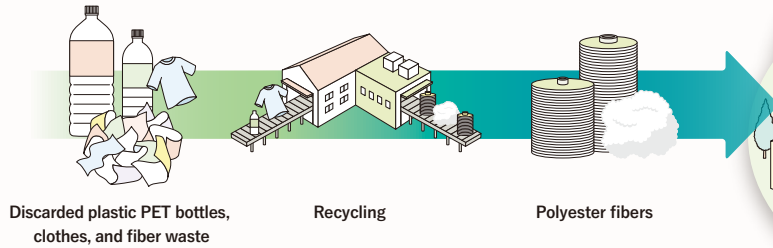
By leveraging functional materials made from filaments and staple fibers and the processing technology of Teijin Frontier Co., Ltd., we offer solutions that cater to customer needs. Please feel free to contact us.

Filaments and staple fibers

Functionalities added by fiber shapes

Through a variety of fiber shapes, we can add the perceptual qualities of softness, draping, and dry touch and the functionalities of sweat absorption, quick drying, non-see through, lightweight, heat retention, and thermal insulation.
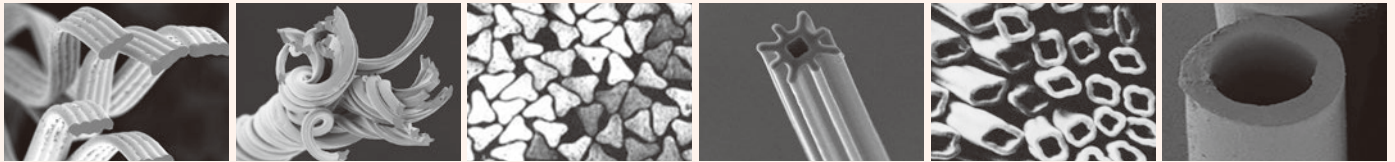
Features obtained by pasting fibers together

By pasting fibers together and producing conjugated yarn, we obtain spring-shaped, stretchy yarn.
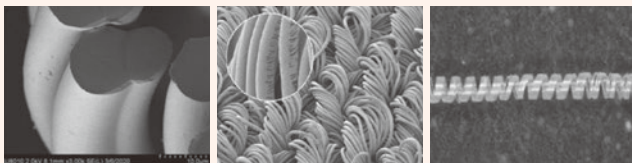
Cross section of conjugated yarn

Textile surface

Spring-shaped yarn

Functionalities and perceptual qualities of ultrafine fibers

By making raw yarn extremely thin, we add the perceptual qualities of oftness and a variety of functionalities, such as non-see-through and adsorptive properties.
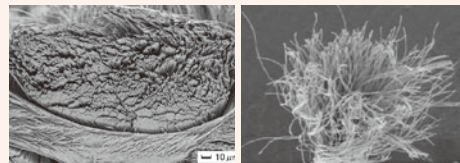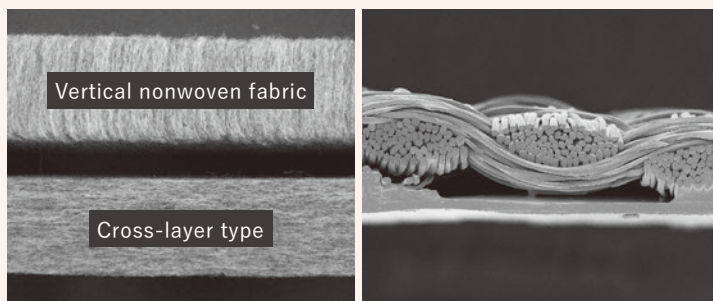
Cross section of textile made of ultrafine fibers

Cross section of an ultrafine fiber

Textiles and products

Functionalities added by processing

Functionalities added by special structures or pasting fibers with films.

Vertical nonwoven fabric

Cross-layer type

Example of vertical nonwoven fabric

Example of pasting fibers with films

We can meet any textile need for ultra lightweight, high density fabrics or stretching materials by using varied yarns, such as modified cross-section yarns and extra thin yarns.

We ensure traceability of the processes, such as materials, weaving or knitting, and dyeing.
For each acquired certification, please submit a separate inquiry.

THINK ECO™

Committed to the use of environment-friendly materials.
* THINK ECO™ is an environmental strategy of Teijin Frontier Co., Ltd.

TEIJIN FRONTIER CO., LTD.