

Performance Materials

INDUSTRIAL FIBERS

Performance Materials: Industrial Materials

A wide variety of polymers make extensive product lines possible for many range of applications

Our strengths lie in the variety of polymers we use as raw materials, our composite fiber production technology, and our ability to quickly deliver a wide variety of products. These strengths enable us to supply staple fiber products for use in high-performance paper, medical and cosmetic applications, as well as industrial materials for a wide range of fields, including civil engineering and construction materials, fishing nets and lines, filters, and nylon hollow fiber membranes. Overseas, we are focusing on the European market to expand sales of binder fibers for filter applications. We are also focusing on differentiated products with high added value and environmentally friendly products to cultivate the market further.



"MELSET"

Unitika Ltd.

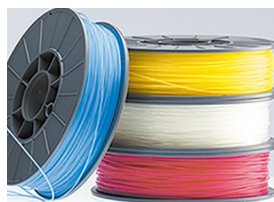
"Melset" is a high performance fiber made with a high-viscosity polyester resin for its core and a low-melting point polyester resin for its sheath. Featuring both elasticity and hardness, it can be molded into various shapes.



Polyamide hollow fiber membrane filter

Unitika Ltd.

Our hollow fiber membrane filter is made from polyamide that is highly resistant to organic solvents. It can be used in the clarification of a wide range of liquids, including aqueous fluids and organic solvents.



"TERRAMAC" 3D printer filament

Unitika Ltd.

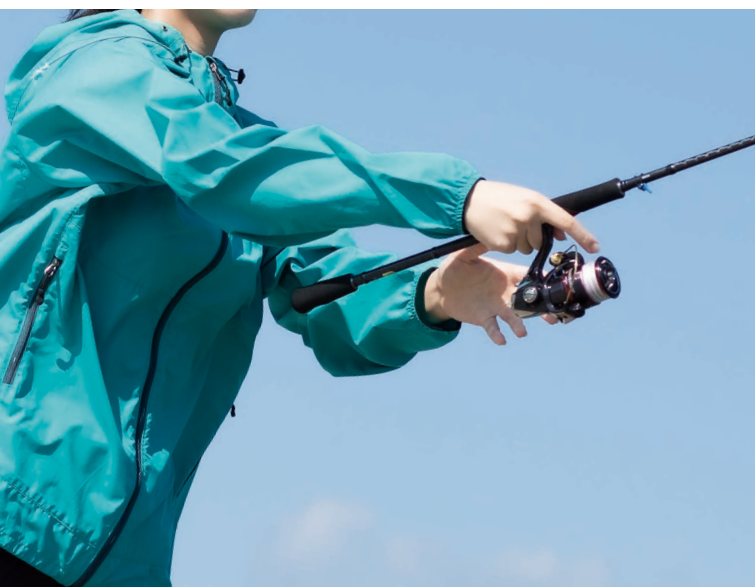
We combined our expertise in plant-based polylactic acid (PLA) and melt-spinning technology to make filaments that can be formed into any desired shape. It features excellent transparency as well as consistent filament roundness and is resistant to breakage during storage and printing.



Fishing lines

Unitika Ltd.

We use our extensive line of polymers and melt-spinning technology to design fishing lines from the material development stage, so they are sure to suit their intended purpose and application. Our products are thoroughly field tested by fishing pros before commercialization.



Fibers & Textiles

Created using Unitika's combined strengths, our clothing materials have the future covered. Our high value-added, environmentally friendly products are sold around the world.

Unitika Trading handles our fiber and textile business operations, including planning, manufacturing, and sales of not only textiles and bedding materials but also finished products. Having established original material and chemical recycling technologies, we concentrate our efforts on the development of environmentally friendly next-generation materials that will set the standard, with a focus on high value-added materials made possible by our raw fiber development and processing technologies. Working to enhance our overseas production locations means working hand in hand with them to create lines of globally competitive products.



"HYGRA"

Unitika Trading Co., Ltd.

This material controls the absorption and desorption of moisture with its core-sheath composite structure that features a special nylon-coated water-absorbent polymer. It makes clothing smoother and more comfortable to wear.



"PALPA"

Unitika Trading Co., Ltd.

The standard for special multi-layered yarn, over 40 years since its birth. Short spun polyester fibers are covered with high-quality cotton.



"TACTEEM"

Unitika Trading Co., Ltd.

Durable, water-repellent material developed by our original yarn. With fine and uneven surface on the fabric, water droplets roll right off.



"Jufy-M ECO+"

Unitika Trading Co., Ltd.

A delicate, linen-like fabric made with recycled polyester materials. Its delicate and special uneven structure on the fabric surface brings moderate water-wicking/releasing and fast dry features.



"SARACOOL"

Unitika Trading Co., Ltd.

An advanced cooling material that effectively blocks heat rays (infrared rays) from the sun. Also, it cuts UV rays and is hardly see-through.



"CASTLON"

Unitika Trading Co., Ltd.

A 100% plant-based nylon material made from castor oil extracted from the seed of the castor oil plant (*Ricinus communis*), non-edible plant.

FIBERS & TEXTILES

