

Kaneka

The Dreamology Company

— Make your dreams come true —



KANEKA Biodegradable Polymer Green Planet™

Fusing proprietary technologies to solve worldwide environmental problems

Ocean pollution by microplastics is a global problem.

To help solve this problem, Kaneka has fused proprietary technologies in fermentation and macromolecules to develop KANEKA Biodegradable Polymer Green Planet™, a biodegradable polymer that can be processed into products like straws and shopping bags.

Green Planet™ is produced by microorganism biosynthesis, in which plant oils are the main raw material. Besides being biodegradable in soil, Green Planet™ is also biodegradable even in seawater, which is difficult for conventional biodegradable plastics.

Green Planet™ holds promise to contribute to reducing plastic pollutants in the world's oceans.

01

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Goal 12 (Responsible consumption and production)

Ensure sustainable consumption and production patterns

14 LIFE BELOW WATER



Goal 14 (Life below water)

Conserve and sustainably use the oceans, seas, and marine resources for sustainable development

Solar Cells

Kaneka technology advances industry while protecting the environment

Energy is the key to balancing industrial development with environmental protection. Kaneka is contributing to this goal through developments such as see-through photovoltaic modules, which can be installed like windows so that buildings can generate their own energy, and flexibly designable solar cells that can be incorporated into car bodies.

We believe that giving companies the ability to create their own clean energy can help close the chapter of history in which industrial development came at the expense of the natural environment.

02

7 AFFORDABLE AND CLEAN ENERGY



Goal 7 (Affordable and clean energy)

Ensure access to affordable, reliable, sustainable, and modern energy for all

12 RESPONSIBLE CONSUMPTION AND PRODUCTION



Goal 12 (Responsible consumption and production)

Ensure sustainable consumption and production patterns

11 SUSTAINABLE CITIES AND COMMUNITIES



Goal 11 (Sustainable cities and communities)

Make cities and human settlements inclusive, safe, resilient, and sustainable

13 CLIMATE ACTION



Goal 13 (Climate action)

Take urgent action to combat climate change and its impacts

5G-Supporting Materials

Providing solutions in the era of IoT and AI

Technological innovations of all kinds are ushering in the IoT era and drastically changing people's lives.

Kaneka provides a variety of new materials that contribute to higher-speed, higher-volume data transmission, a sensing revolution, and innovations in information displays.

For materials supporting 5G, the new standard for high-speed, high-volume data transmission, we developed ultra-heat-resistant polyimide film. Able to withstand high frequencies and achieve electrical energy loss reduction among the world's highest, this is just one way we use our strength in materials to pioneer the IoT and AI era.

03



Goal 9 (Industry, innovation, and infrastructure)
Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation



Goal 11 (Sustainable cities and communities)
Make cities and human settlements inclusive, safe, resilient, and sustainable

Bio Business

Using state-of-the-art technologies in a never-ending quest to improve people's lives and health

Kaneka's bio business is the one most intertwined with global issues of the environment, and people's food and health. Our development efforts include high-performance fertilizers that promote the safe growth of plants and technologies for dramatically shortening breeding periods.

Our technologies have been in particularly high demand recently in the healthcare field.

Centered on Kaneka's biotechnology and synthesis technology, our contributions to the healthcare field include the supply of synthetic pharmaceuticals and biopharmaceuticals, and the development of virus detection kits.

To meet today's need to coexist with viruses, we launch cross-organizational teams through which we strengthen our technological contributions to the fight against infectious diseases.

04



Goal 2 (Zero hunger)
End hunger, achieve food security and improved nutrition, and promote sustainable agriculture



Goal 3 (Good health and well-being)
Ensure healthy lives and promote well-being for all at all ages

KANEKA thinks “Wellness First”.

Kaneka brings the environment to its ideal state, develops its business in a “wellness-first” direction, energizes people, adds vibrancy to business, and helps build a happier society.

To make the world more wellness-first.

Kaneka takes an innovative approach to science, and seeks to fulfill people’s dreams by offering a wide variety of solutions.

The result of long years of hard work, our businesses and products have become integral to countries and regions around the world.

Society’s values and systems are changing at a speed and scale far beyond anyone’s imagination. Companies can’t survive without thinking outside the box in creating new business models.

Chemistry’s power to change holds limitless possibilities to solve a vast range of problems on a global scale.

It also presents Kaneka with opportunities for revolutionary advances.

Chemistry can be likened to a sea of adventure, a wondrous journey that Kaneka has embarked upon. We will continue to act on a global scale as we implement “Wellness First” health management to support a society that nurtures life, while helping people realize their full humanity.

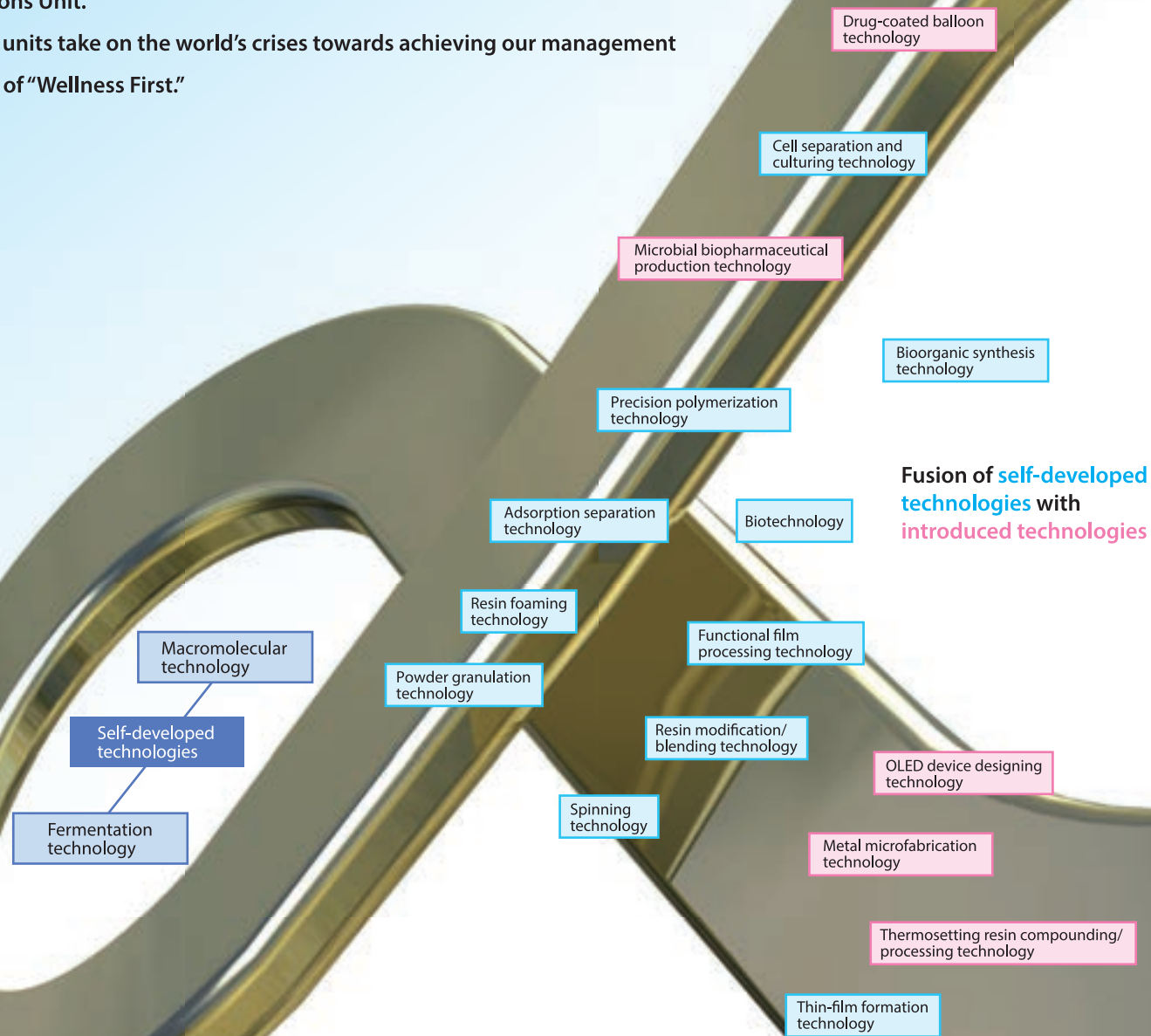


Giving the world health through early solutions for society's problems through a strategy of R&B—research and business

We have set the purpose of our R&D activities as “resolving social issues at the earliest opportunity possible by pursuing value from the perspectives of markets and customers through the proactive use of leading-edge technologies” and have redefined R&D as R&B (Research & Business).

We provide solutions in four business domains: the Material Solutions Unit, Quality of Life Solutions Unit, Health Care Solutions Unit, and Nutrition Solutions Unit.

These units take on the world's crises towards achieving our management vision of “Wellness First.”



R&B's driving force

Kaneka has positioned four business domains to implement its R&B strategy. Within these domains, we further innovate our technologies, expand business models, and create new ones.



Three crises to solve

Kaneka has positioned the key fields of Environment/energy, Food, and Wellness as three crises facing our world. We believe that overcoming these crises is imperative to enabling a plentiful future for humankind.

Environment/energy crisis



Through various developments, such as KANEKA Biodegradable Polymer Green Planet™ for biodegradable food packaging and photovoltaic power systems that can be installed on building walls and other surfaces, we aim to create a society where everyone can use clean and sustainable resources and energy.

Food crisis



Through the development of products such as crops resistant to unseasonable weather and changing environments and fertilizers that accelerate crop growth, and the production of high-value-added dairy products through cooperation with dairy farmers, we realize a society where safe, secure, and highly nutritious food is available to everyone and where food producers are also satisfied.

Wellness crisis



By developing safe and highly effective supplements that maintain and improve physical health, and by contributing to the treatment of diseases, even refractory ones, we realize a society where everyone has access to adequate medical services and can continue to live a vibrant and healthy life.

Key drivers and technologies





Accelerating R&B strategy through optimal, cross-organizational teams

Kaneka has positioned environment/energy, food, and wellness as key fields in its R&B strategy. In each of these fields, we have research divisions connected to our Solutions Vehicles (SVs), so that SVs can come up with comprehensive, strategic solutions. Without regard for the company's vertical organization, we have created teams of laboratories at Kaneka in Japan in order to increase the speed at which we solve problems.

But this structure is not limited to Japan. Through cooperation among Kaneka's overseas bases, and collaboration with leading-edge-technology research institutes around the world, we are strengthening our research and development towards applying technologies to products.

Research Framework Realizes R&B Strategy

Laboratories in Japan

We are positively promoting alliances and open innovations that are network-based beyond the border of organizations and companies.

Material Solutions New Research Engine

Engages in R&D on cutting-edge and new products and technologies in functional resins.

Electronics Research Laboratories

Engages in R&D on unique and new products and technologies in the electronics field.

Biotechnology Research Laboratories

Engages in R&B on new products and technologies in biotechnology and fine chemicals.

Regenerative Medicine and Cell Therapy Laboratories

Engages in R&B on devices related to regenerative medicine and cell therapy and new technologies and products related to cellular medicine and therapy.

Photovoltaic & Thin Film Device Research Laboratories

Develops new products by expanding the application of photovoltaic cells and transparent electrodes using thin film forming technology and device technology.

Engineering Research Laboratories

Develops processes and production technology in device-type and assembly-type business domains based on process design technology and chemical engineering analysis technology.

Process Development Research Laboratories

Engages in the development of innovative processes and production technology for business domains such as photovoltaic cells, organic EL lighting, resin processing, and high-precision engineering molding products.

Green Planet Technology Laboratories

Engages in technical development on research, composition, processing, and evaluation related to biodegradable polymer.

Open innovation

We are promoting innovations by collaboration with major domestic and foreign universities and public research institutions in order to provide unique, global number-one, and excellent materials.

— Main bases —



Kaneka's European Photovoltaics Research Laboratory

Location: Leuven, Belgium
Established within imec, this laboratory promotes R&B in high efficiency solar cell technology.



Kaneka US Innovation Center

Location: California, USA
This center promotes open innovation including M&A, in addition to research and new development of health and information communication.

What's New

University of Louvain (UCLouvain)

In October 2020, Kaneka and the university signed a research collaboration agreement in order to develop innovative biomedicine production technologies. The agreement aims to strengthen and expand CDMO business for biomedicines, including providing solutions to social issues such as reducing the costs of expensive biomedicines, and contributing to spreading biomedicines and vaccines used against viral infectious diseases.



Contributing to innovation in all fields by expanding the potential of materials

Material Solutions Unit

Material SU

Quality of Life SU

Health Care SU

Nutrition SU

We are surrounded by plastic products in our everyday lives. As a result, Kaneka has implemented integrated production of polyvinyl chloride (PVC), a plastic raw material, as well as biopolymers that help to contribute to environmental conservation. We create plastic materials to have a range of functions, such as heat resistance, flame resistance, and good weatherability. These materials can be applied to a wide spectrum of industries: construction, industrial, automotive, appliances, and equipment.

Vinyls and Chlor-Alkali Solutions Vehicle

Our integrated production system includes vinyl chloride monomers, polymers, and vinyl chloride. The goal of these products is to continue contributing to society by supporting daily life and infrastructure.



Chemicals
Caustic soda,
sodium hypochlorite,
hydrochloric acid



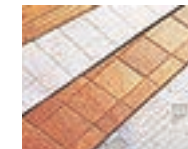
Polyvinyl chloride
Kanevinyl™



Cross-linked PVC
Kaneka XEL™,
Kanevinyl™



PVC-PVAc polymers
Kanevinyl™



Paste PVC
Kanevinyl™ Paste



Chlorinated PVC
Kaneka™ CPVC

Performance Polymers (MOD) Solutions Vehicle

These plastic materials that provide heat, weather, and flame resistance help to support daily lifestyles and infrastructure by being versatile and applicable to a variety of fields—including construction, automotive, industrial, appliances, and equipment.



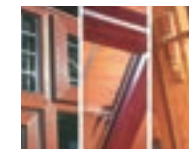
Impact modifiers
Kane Ace™ B,
Kane Ace™ M



Processing aids/specialty
additives
Kane Ace™ PA



Toughener for
thermosetting resins
Kane Ace™ MX



Acrylic film
Sunduren™



Engineering resin for
injection molding
Kane Hyperite™



Thermal conductivity
engineering
plastic compounds

Performance Polymers (MS) Solutions Vehicle

Kaneka's unique resin materials allow the creation of sealing, adhesive, and coating agents whose properties include superb weather resistance, elasticity, and adhesion. We provide a variety of solutions in construction, industry, information equipment, and other fields.



Silyl-terminated polyether
Kaneka MS Polymer™,
Silyl™



Acrylic silicon polymer
Kaneka Gemlac™



Terminally reactive liquid
acrylic polymer
KANEKA XMAP™



Isobutylene-based
thermoplastic elastomer
SIBSTAR™

Creating daily comfort and environmentally friendly cycles through the power of chemistry

Quality of Life Solutions Unit

Material SU

Quality of Life SU

Health Care SU

Nutrition SU

Molded foam resin products can be given a variety of functions depending on factors such as the type of resin, the molding method, and the expansion ratio. Such products—used as cushioned packaging, automobile parts, and home insulation—help realize daily convenience and comfort in the food and housing fields. Kaneka also provides proprietary materials and services that save energy and make our lives smarter; for example, exhaust heat treatment technologies for information equipment and aesthetically pleasing photovoltaic power systems. It all adds up to a higher quality of life.

Foam & Residential Techs Solutions Vehicle

Kaneka helps make lives better, whether it's cushioned packaging, fish boxes, insulation to make homes comfortable, bumper core material that makes cars lighter and safer, or constant-temperature shipping packaging.



Polypropylene foam made with the bead method Eperan-PP™



Polystyrene foam made with the bead method Kanepearl™



Extruded polystyrene foam insulation Kanelite Foam™



External insulation and double ventilation construction method Solar Circuit™



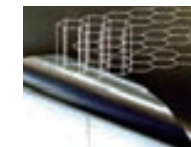
Phase Change Materials (PCM) Kaneka PATTHERMO™

E & I Technology Solutions Vehicle

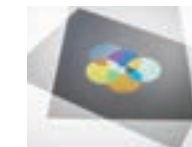
Chemistry can make electronic equipment that is smaller, performs better, and is more beautiful. We create new value that pioneers cutting-edge fields and makes people's lives better.



Polyimide film Pixeo™, Apical™



Extremely high thermal conductivity graphite sheet Graphinity™, others



Transparent film for optical use Elmech™



Optical acrylic resin



Polyimide varnish

PV & Energy management Solutions Vehicle

Solar cells are the leading renewable energy solution. Our photovoltaic power systems can be integrated into the roof, windows, and walls so that the building materials themselves generate electricity.



Roof tile-integrated photovoltaic modules VISOLA™



Decorative slate tile-integrated photovoltaic modules



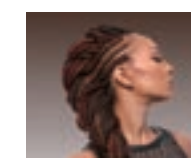
Roof tile-integrated photovoltaic modules VISOLA™ (Installation image)



See-through photovoltaic modules

Performance Fibers Solutions Vehicle

Fiber products are integral to our lives. In developing Kanekalon™/Kanecaron™, unique fiber products unlike those of other companies, we have provided consumers around the world with new value for a variety of situations.



Materials for hair accessory products Kanekalon™



Eco fur Kanecaron™



Flame-retardant materials Kanecaron™, Protex™



New materials Collagen fiber, others

Advancing healthcare by responding every day to needs on the front lines of the medical field

Health Care Solutions Unit

Material SU

Quality of Life SU

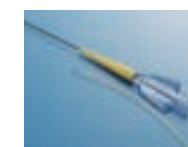
Health Care SU

Nutrition SU

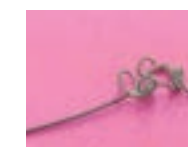
One of Kaneka's most important missions is to protect people's lives and health. Based on our two core technologies of macromolecules and biotech, we develop medical related products and contribute to advancements in medical technology. We support the front lines of the medical field by listening to professionals in the field and, when needs arise, quickly responding through the power of chemistry.

Medical Solutions Vehicle

Our range of solutions so far includes catheters for blood vessel treatment and blood purification systems. With an extensive product lineup that meets a wide range of medical needs, we help advance medical technology.



Medical device
Balloon catheter for vessel stenosis dilatation



Medical device
Aneurysm embolization coil



Blood purification system
LIPOSORBER™



Gastroenterology intervention
High-frequency hemostat for endoscope



Regenerative medicine and cell therapy
Cell washing concentration system



Genetic diagnostic products

Pharma & Supplemental Nutrition Solutions Vehicle

Using biotechnology and synthesis technology, we contribute to medicines in many fields, from synthetic pharmaceuticals to cutting-edge biopharmaceuticals. We continue to provide solutions to pharmaceutical companies around the world.



APIs and intermediates for small molecule pharmaceuticals



Products and services for biopharmaceuticals



Affinity chromatography resin for purification of monoclonal antibody KANEKA KanCapA™



Transdermal medicine

Harnessing the power of chemistry to innovate food and health and dairy farming

Nutrition Solutions Unit

Material SU

Quality of Life SU

Health Care SU

Nutrition SU

Kaneka provides solutions to bread and sweets manufacturers in the food processing materials market. We cater to the ever-changing needs and preferences of consumers by developing and providing ingredients combining good taste and functionality, and products that add value. Besides helping create food culture, we also support production in agriculture and dairy farming.

Pharma & Supplemental Nutrition Solutions Vehicle

We have spent years utilizing our fermentation technology to develop dietary ingredients; for example, we successfully established industry-level production of ubiquinol, the reduced and active form of coenzyme Q10, which was difficult previously. It is our desire to contribute to people's health the world over.



Dietary ingredients
Kaneka QH™ (ubiquinol)



Dietary supplements
Supplement Product Series
dietary supplements



Plant-derived probiotics
Lactobacillus brevis ssp.
Coagulans



AB-Biotics probiotics
Floradapt® series



Other dietary ingredients
Licorice glabra
polyphenol, etc.

Food & Agris Solutions Vehicle

The foodstuff market continues to demand greater nutrition, wider variety, and new tastes. By fusing our array of technologies such as fermentation and oil and fat processing, we offer solutions that boost the value of food.



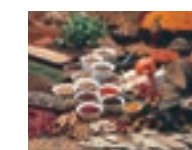
Pound block margarine/
Sheet margarine
NOVA™ / EMPEROR™



Cacao butter equivalent
Belco™



Whipping cream/
Cream for kneading and
other uses
LACHENTE™ / FRANJE™



Spices



Milk/milk beverages
"Milk for Bread" series



Yogurt
Q10 yogurt

The Dreamology Company

Make your dreams come true

Since its founding in 1949, Kaneka has achieved growth by overcoming changes in the times and business environment through a creative fusion of people and technology. The many materials we create are used by our customers in products essential to rewarding living, and our businesses have come to span wide-ranging fields.

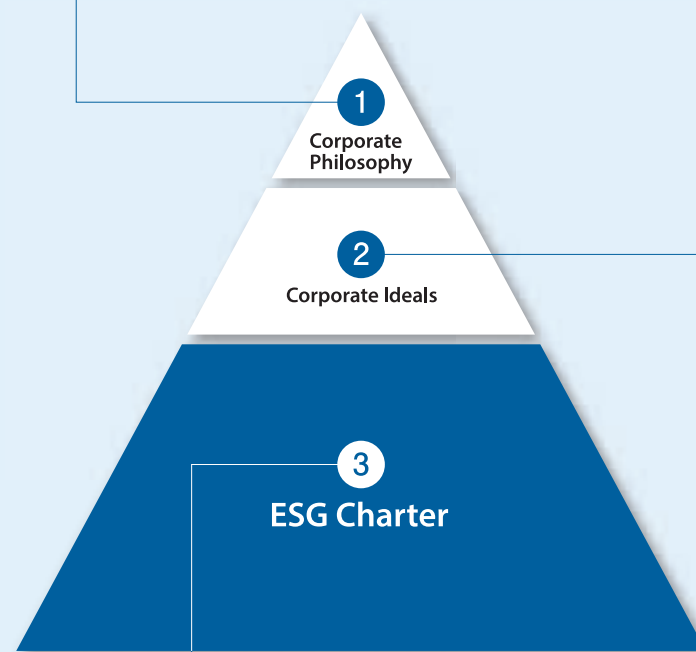


Management Philosophy Structure

Declaration of Kaneka United

In 2009, on the occasion of the 60th anniversary of our founding, in order to achieve the innovation and growth that will lead us into the future, we established a new corporate philosophy and an image of the ideal Kaneka that we should strive to realize. We will also actively work to solve social issues by reinforcing Environment, Social, and Governance initiatives as our management policy.

With people and technology growing together into creative fusion, we will break fresh ground for the future and tie in to explore New Values. We are also committed to challenge the environmental issues of our planet and contribute to upgrading the quality of life.



Toward an Even More Impressive and Productive Future

Hold in your hands the future you have always dreamed of. We are a highly perceptive and collaborative value-creating group or, as we like to say, a "Dreamology Company."* We want to look at the future from the same perspective as our customers. The future that Kaneka visualizes is one that connects us with our customers.

*"Dreamology" is an expression coined from 'dream' and 'ology' (science). Our "Dreamology Company" is a "highly perceptive and collaborative value-creating group."

Five "Ties"

1. Tie to the future

As a research and development company brimming with creative energy and passion, we will create future-oriented businesses that leap beyond current market needs and back them up with new product development, thus protecting the global environment and contributing to the quality of life.

2. Tie to the world

We are determined to become a truly global enterprise with diverse human resources working together on a global scale. Our presence will be felt in markets around the world, including newly emerging ones.

3. Tie with value

We are proud of our unity and identity as the Kaneka Group and will take on the challenges of value creation and business innovation through close collaboration.

4. Tie for innovation

We will never cease to pursue innovation, fusing wisdom from both internal and external sources without getting caught up in organizational compartmentalization and conventional ways of doing things.

5. Tie with people

We in the Kaneka Group believe that the wellspring of corporate growth resides in human resources and will continue to seek innovation as we cultivate and nurture our valued employees.

Putting the Corporate Philosophy Into Practice

1. We offer solutions characterized by value to global markets and contribute to the evolution of lifestyles and the environment through innovative chemistry.

- 1 We bring innovation to lifestyles and the environment by harnessing the unlimited potential of chemical materials to help communities achieve sustainability. (Earthology Chemical Solution)
- 2 By adopting a unified approach to food and medicine that is defined by a focus on chemistry, we provide innovative solutions that empower people to live healthier lives. (Active Human Life Solution)

2. We fulfill our social responsibility by empowering individual employees to put our corporate philosophy into practice through serious, forward-looking effort.

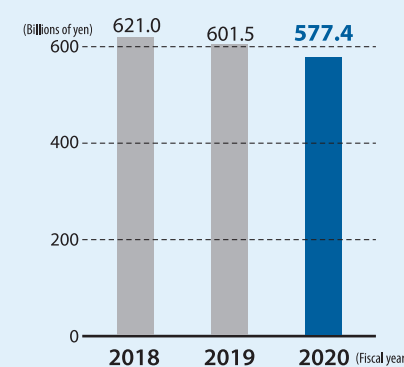
- 1 We actively contribute to our communities by cultivating understanding of the cultures and customs of the countries and regions where we do business and by pursuing corporate activities that are deeply rooted in those communities.
- 2 We operate our businesses in a fair and impartial manner based on the principles of free competition and legal compliance.
- 3 We're committed to communicating with shareholders and other stakeholders and to making information about our operations available in a timely and appropriate manner.
- 4 We strive to foster an organizational culture that respects the personalities and uniqueness of all employees so that they can enjoy good health, feel motivated, and make the most of their abilities.
- 5 Reflecting a commitment to make safety the top priority in our operations, we work to create safe and healthy workplaces, ensure product safety, and protect and preserve the environment.

In 2018, Kaneka Group established the ESG Charter, aiming to evolve its ESG management.

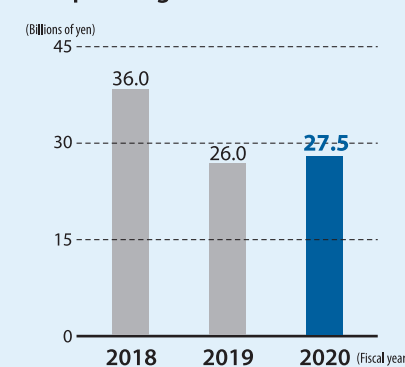
Corporate Profile

Name	KANEKA CORPORATION	Sales office	• Nagoya Sales Office (Aichi); Tel: +81-52-959-5761
President	Minoru Tanaka	Plants	• Takasago Manufacturing Site (Hyogo); Tel: +81-79-445-2500 • Osaka Manufacturing Site (Osaka); Tel: +81-72-650-2600 • Shiga Manufacturing Site (Shiga); Tel: +81-77-577-2100 • Kashima Manufacturing Site (Ibaraki); Tel: +81-0299-96-2341
Date of establishment	September 1, 1949	Laboratories	• Material Solutions New Research Engine (Osaka Manufacturing Site) • Electronics Research Laboratories (Osaka Manufacturing Site) • Biotechnology Research Laboratories (Takasago Manufacturing Site) • Regenerative Medicine and Cell Therapy Laboratories (Kobe MI R&D Center) • Photovoltaic & Thin Film Device Research Laboratories (Osaka Manufacturing Site) • Engineering Research Laboratories (Takasago Manufacturing Site) • Process Development Research Laboratories (Osaka Manufacturing Site, Toyooka Development Center) • Green Planet Technology Laboratories (Osaka Manufacturing Site)
Tokyo Head Office	1-12-32, Akasaka, Minato-ku, Tokyo 107-6028, Japan Tel: +81-3-5574-8000 Fax: +81-3-5574-8121	Kaneka Group	89 consolidated subsidiaries
Osaka Head Office	2-3-18, Nakanoshima, Kita-ku, Osaka 530-8288, Japan Tel: +81-6-6226-5050 Fax: +81-6-6226-5037		
Paid-in capital	33,046 million yen		
Number of employees	11,272 (including consolidated subsidiaries); 3,551 (Kaneka Corporation) (As of March 31, 2021)		
Line of business (Solutions Vehicles)	Vinyls and Chlor-Alkali, Performance Polymers (MOD), Performance Polymers (MS), Foam & Residential Techs, E & I Technology, PV & Energy management, Performance Fibers, Medical, Pharma & Supplemental Nutrition, Foods & Agris		

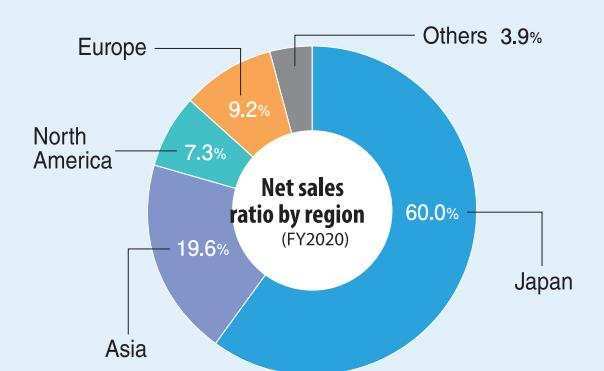
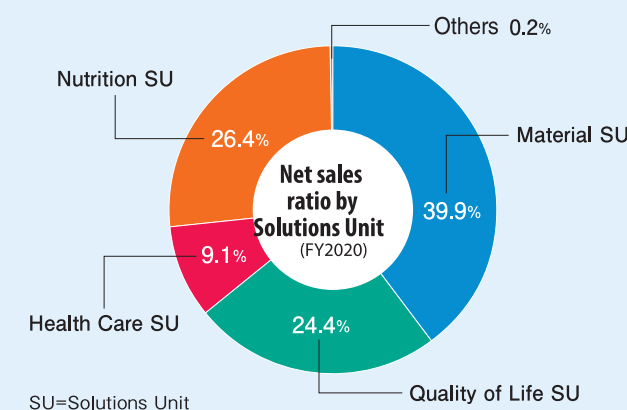
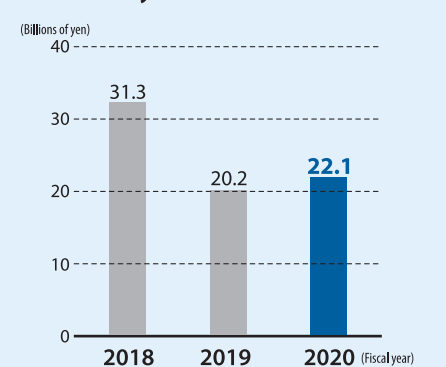
Net Sales



Operating Income



Ordinary Income



Our strength is in our worldwide network

In addition to its coverage of Japan, Kaneka's network stretches from Europe to the Americas and Asia.
Our regional holding companies allow us to quickly develop locally geared businesses.

Overseas Group Companies

● Overseas subsidiaries and offices ■ Overseas R&B facilities

EUROPE/AFRICA

- Kaneka Europe Holding Company N.V.
- Kaneka Belgium N.V.
- Kaneka Medical Europe N.V.
- Kaneka Eurogentec S.A.
- Kaneka Modifiers Deutschland GmbH
- Eurogentec Deutschland GmbH
- Eurogentec Proteomics GmbH
- Eurogentec Ltd.
- Eurogentec France S.A.S.U.
- Eurogentec Nederland B.V.
- AB-Biotics, S.A.
- Kaneka Africa Liaison Office
- Kaneka's European Photovoltaics Research Laboratory



Kaneka Europe Holding Company N.V.
Kaneka Belgium N.V.
Kaneka Medical Europe N.V.



Kaneka Belgium N.V. Oevel Plant



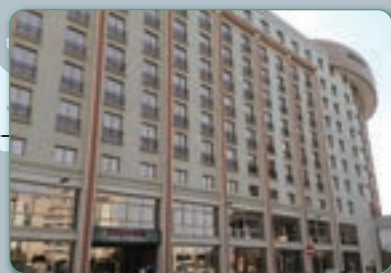
Kaneka Eurogentec S.A.

THE AMERICAS

- Kaneka Americas Holding, Inc.
- Kaneka North America LLC
- Kaneka Medical America LLC
- Kaneka Aerospace LLC
- Anaspec Inc.
- Cemedine North America LLC
- Eurogentec North America Inc.
- Kaneka South America Representative Ltd.
- Kaneka US Innovation Center



Kaneka Americas Holding, Inc.
Kaneka North America LLC



Kaneka Europe Holding Company N.V.
Kaneka Africa Liaison Office



Kaneka Asia Co., Ltd.
Kaneka Trading (Shanghai) Co., Ltd.

ASIA/OCEANIA

- Kaneka Asia Co., Ltd.
- Kaneka Trading (Shanghai) Co., Ltd.
- Kaneka Eperan (Suzhou) Co., Ltd.
- HiHua Fiber Co., Ltd.
- Kaneka (Foshan) High Performance Materials Co., Ltd.
- Cemedine Shanghai Co., Ltd.
- Dalian Showa Plastic Co., Ltd.
- Kaneka (Malaysia) Sdn. Bhd.
- Kaneka Eperan Sdn. Bhd.
- Kaneka Paste Polymers Sdn. Bhd.
- Kaneka Innovative Fibers Sdn. Bhd.
- Kaneka Apical Malaysia Sdn. Bhd.
- Kaneka MS Malaysia Sdn. Bhd.
- Kaneka Singapore Co. (Pte.) Ltd.
- AB-Biotics Pte. Ltd.
- Kaneka Medical Vietnam Co., Ltd.
- KSS Vietnam Co., Ltd.
- Vina Showa Co., Ltd.
- Kaneka (Thailand) Co., Ltd.
- Asia Cemedine Co., Ltd.
- Showa Global (Thailand) Co., Ltd.
- Cemedine (Thailand) Co., Ltd.
- Kaneka India Pvt. Ltd.
- PT. Kaneka Foods Indonesia
- Kaneka Taiwan Co., Ltd.
- Taiwan Cemedine Co., Ltd.
- Kaneka Korea Corporation
- Cemedine Philippines Corporation
- Showa Global Ltd.
- TGA Pastry Company Pty. Ltd.



Kaneka (Malaysia) Sdn. Bhd.
Kaneka Eperan Sdn. Bhd.
Kaneka Paste Polymers Sdn. Bhd.
Kaneka Innovative Fibers Sdn. Bhd.
Kaneka Apical Malaysia Sdn. Bhd.
Kaneka MS Malaysia Sdn. Bhd.



Kaneka Singapore Co. (Pte.) Ltd.



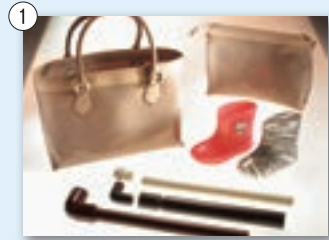
Kaneka Medical Vietnam Co., Ltd.

History driven by innovation and challenge

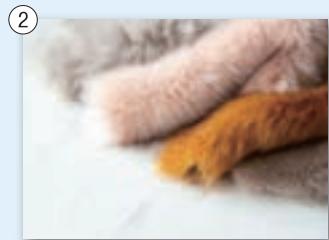
Kaneka's approximately 70-year journey has not always been smooth sailing. It has been a challenging one in which we have boldly faced, and overcome, one unforeseen difficulty after another. We have turned adversities into successes—pain into gain. This desire to succeed is in Kaneka's DNA.



Foundation–1990s



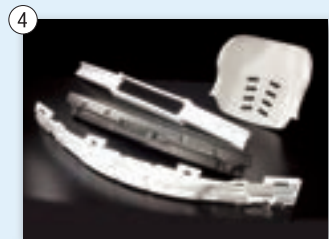
Kanevinyl™



Kaneacaron™



Kaneka Belgium N.V.



Eperan-PP™



Elmech™

- 1949**
 - Established Kaneka Corporation with ¥200 million capital.
 - Developed polyvinyl chloride (PVC), Kanevinyl. ①
- 1950**
 - Started first production of PVC wire covering.
- 1953**
 - Started large-scale production of margarine and shortening.
- 1957**
 - Developed and marketed Kanecaron. ②

- 1960**
 - Takasago Plant Kanevinyl facilities were completed and production began.
- 1964**
 - Developed and marketed Kane Ace B.
- 1965**
 - Developed and marketed expandable polystyrene, Kanepearl.
 - Started sales of Kanekalon wig, Fontaine (sold business in 1985).
- 1967**
 - Developed a PVC paste, which began production and sales as Kanevinyl Paste.
- 1968**
 - Developed heat-resistant Kanevinyl and commenced production and sales.
 - Established Europe office and New York office.

- 1970**
 - Developed and marketed extruded polystyrene foam board, Kanelite Foam.
 - Established Kaneka Belgium N.V. ③
- 1971**
 - Established Kaneka America Corporation.

- 1973**
 - Developed and marketed polyethylene foam using bead method, Eperan.
 - Developed and marketed bonded magnet, Kaneka Flux.

- 1974**
 - Developed Glutathione, pharmaceutical intermediate for hepatic medicines, using fermentation, and started production.
- 1977**
 - Developed and marketed Ubidecarenone, pharmaceutical bulk for cardiac medicines.

- 1978**
 - Developed and marketed weather-resistant MMA resin-based film, Sunduren.
- 1979**
 - Established Kaneka Singapore Co. (Pte.) Ltd.
 - Developed and marketed silyl-terminated polyethers, Kaneka MS Polymer.

- 1980**
 - Marketed pharmaceutical intermediates, HPG.
- 1982**
 - Established Kaneka Texas Corporation (now Kaneka North America LLC).
- 1983**
 - Developed and marketed AMMPA Kaneka, intermediate for anti-hypertensive medicine.
 - Developed and marketed acrylic silicon polymer, Kaneka Gemlac.

- 1984**
 - Developed and marketed amorphous photovoltaic modules.
 - Developed and marketed polyimide film, Apical.
- 1985**
 - Developed and marketed polypropylene foam using bead method, Eperan-PP. ④
- 1986**
 - Commercialized blood purification system and commenced production and sale of the SULFLUX membrane-type plasma separator, and the LIPOSORBER low-density lipoprotein (LDL) absorber.

- 1987**
 - Established Kaneka Germany (now Kaneka Pharma Europe N.V.).
 - Received prize from the Society of Fiber Science and Technology, Japan for Kanekalon coloring and spinning method.

- 1989**
 - Established Allied-Apical Co. (now Kaneka North America LLC).
 - Received award from the Society of Polymer Science of Japan for plasmapheresis system.
 - Developed modified PET resin, Kaneka Hyperite.

- 1990**
 - Allied-Apical commences production of Apical.

- 1991**
 - Developed and marketed Selesorb, a selective adsorption column for systemic lupus erythematosus.

- 1992**
 - Established Kaneka Technical Service Co., Ltd. Shanghai.

- 1994**
 - Manufacturing approval obtained for Lixelle plasma purification device for use in the treatment of dialysis-related amyloidosis.
 - Established Kaneka Pharma Europe N.V.

- 1995**
 - Marketed transparent film, Elmech. ⑤
 - Established Kaneka (Malaysia) Sdn. Bhd.

- 1996**
 - Established Kaneka Eperan Sdn. Bhd.

- 1997**
 - Established Kaneka Pharma America LLC.
 - Kaneka Malaysia began production of Eperan and MBS resin.
 - Established Kaneka High-Tech Materials (now Kaneka North America) to carry on the business operations of Allied-Apical.
 - Kashima Manufacturing Site production facilities completed for Epion liquid polyisobutylene resin.
 - Kaneka Belgium began production of MS Polymer.

- 1998**
 - Established Kaneka Consulting (Shanghai) Co., Ltd. (now Kaneka Trading [Shanghai] Co., Ltd.).
 - Established Kaneka Solartech to produce amorphous silicon solar panels.

- 1999**
 - Established Kaneka Paste Polymers Sdn. Bhd.

2000s–

- 2000**
 - Developed world's first non-fluorocarbon, non-halogen foaming agent Kanelite Foam, JIS category 3 insulation panel.

- 2002**
 - Began to sell the dietary ingredient Kaneka Coenzyme Q10. ⑥
 - Began to sell Japan's first embolization coil.

- 2003**
 - Developed protein fiber and established HiHua Fiber Co., Ltd. in China.
 - Established Suzhou Eperan Plastic Ltd. (now Kaneka Eperan [Suzhou] Co., Ltd.)

- 2005**
 - Developed the industry's first acrylic grafted-vinyl chloride copolymer, PRICTMER.

- 2006**
 - Industrialized the world's first Telechelic polyacrylate.
- 2007**
 - Established Kaneka Pharma Vietnam Co., Ltd.
 - Developed Japan's smallest balloon catheter for use in the treatment of heart disease. ⑦

- 2008**
 - Developed a new resin with high mechanical strength and high light resistance, ILLUMIKA.
 - Developed world's most advanced high thermal conductive graphite sheet, Graphinity.
 - Began commercial production of the isobutylene thermoplastic elastomer SIBSTAR.

- 2009**
 - Started sales of KANEKA Surfactin biosurfactant. ⑧

- 2010**
 - Developed new thermally conductive plastics with electric insulating properties.
 - Rolled out Organic EL Lighting Panels Business.
 - Established Kaneka India Pvt. Ltd.
 - Established Kaneka Innovative Fibers Sdn. Bhd.
 - Formed capital alliance with Belgian biotechnology firm, Eurogentec S.A.

- 2011**
 - Started operation at a newly completed pilot production facility for 100% plant-derived biopolymers at the Takasago Manufacturing Site.
 - Established Kaneka Modifiers Deutschland GmbH.
 - Established Kaneka Taiwan Co., Ltd.
 - Established Kaneka Korea Corporation.
 - Established Kaneka (Foshan) High Performance Materials Co., Ltd.
 - Developed a new thermosetting imide resin for a carbon fiber-reinforced composite material with high heat resistance.

- 2012**
 - Established Kaneka Asia Co., Ltd., an Asia regional holding company in Shanghai ⑨, and Kaneka Americas Holding, Inc., an Americas regional holding company in Texas, U.S.
 - Established Kaneka Apical Malaysia Sdn. Bhd.
 - Started sales of Kaneka Antifreeze Protein.

- 2013**
 - Established Kaneka South America Representative Ltd. in Brazil.
 - Established PT. Kaneka Foods Indonesia.
 - Established Kaneka US Material Research Center within Texas A&M University.
- 2014**
 - Commenced sale of organic EL lighting panels with the world's longest service life and excellent color stability.

- 2015**
 - Signed the United Nations Global Compact, a concept advocated by former UN Secretary-General Kofi Annan.
 - Established Kaneka Europe Holding Company N.V.
 - A PTA balloon catheter jointly developed with Terumo Corporation for use in peripheral blood vessel therapy went on sale in the U.S.
 - Established Kaneka MS Malaysia Sdn. Bhd.
 - Established a research facility specializing in regenerative medicine and cell therapy.

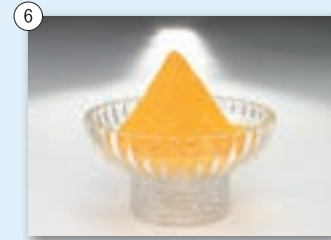
- 2016**
 - Acquired a shareholding in Cemedine Co., Ltd., which became a consolidated subsidiary.
 - Opened Kaneka Africa Liaison Office in Ghana.
 - Established Kaneka US Innovation Center.

- 2017**
 - Established Kaneka Hokkaido Co., Ltd.
 - Acquired a U.S. formulated advanced resin supplier (Kaneka Aerospace LLC).
 - Concluded license contract with a European company and entered the drug-coated balloon business.

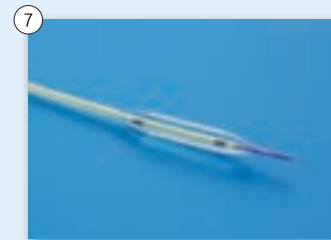
- 2018**
 - Kaneka Aerospace acquired the composites portfolio of Henkel Corporation.
 - Rolled out the dairy products business.
 - Invested in AB-Biotics S.A. and concluded a license agreement for production and sales of its probiotics products.
 - Kaneka's biodegradable plastic shopping bags adopted in JICA's Collaboration Program with the Private Sector for Disseminating Japanese Technology.

- 2019**
 - Invested in a US-based medical device company.
 - Started production of Eperan and Eperan-PP at Kaneka (Thailand) Co., Ltd.
 - Launched Belgian Yogurt Pur Natur.
 - Kaneka Biodegradable Polymer listed in the Plastics Implementing Measures of the European Commission for use with all food types.
 - Began to sell a new coil for embolization of brain aneurysms.

- 2020**
 - Kaneka's see-through photovoltaic modules were adopted in the Japan National Stadium. ⑩
 - Concluded an agreement with Fujifilm Corporation to supply active pharmaceutical ingredients for Avigan™ Tablet.
 - Kaneka Biodegradable Polymer adopted in straws for Seven Café's new lineup.
 - Joined a consortium for the production of a DNA vaccine for COVID-19.
 - Signed an agreement with Japan Tobacco Inc. to acquire assets related to plant biotechnology.
 - Developed ultra-heat-resistant polyimide film for 5G millimeter wave zones.



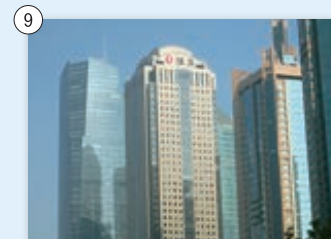
Kaneka Coenzyme Q10



Balloon catheter



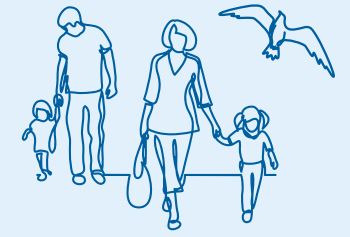
KANEKA Surfactin



Kaneka Asia Co., Ltd.



JAPAN NATIONAL STADIUM



Material Solutions Unit

Vinyls and Chlor-Alkali Solutions Vehicle						
	Chemicals Caustic soda, sodium hypochlorite, hydrochloric acid	Polyvinyl chloride Kanevinyl™	Cross-linked PVC Kaneka XEL™, Kanevinyl™	PVC-PVAc polymers Kanevinyl™	Paste PVC Kanevinyl™ Paste	Acryl-grafted vinyl chloride copolymer PRICTMER™
	Chlorinated PVC Kaneka™ CPVC					
Performance Polymers (MOD) Solutions Vehicle						
	Impact modifiers Kane Ace™ B, Kane Ace™ M	Processing aids/specialty additives Kane Ace™ PA	Toughener for thermosetting resins Kane Ace™ MX	Acrylic film Sunduren™	Engineering resin for injection molding Kane Hyperite™	Thermal conductivity engineering plastic compounds
Performance Polymers (MS) Solutions Vehicle						
	Silyl-terminated polyether Kaneka MS Polymer™, Silyl™	Acrylic silicon polymer Kaneka Gemlac™	Terminally reactive liquid acrylic polymer KANEKA XMAP™	Isobutylene-based thermoplastic elastomer SIBSTAR™		

Nutrition Solutions Unit

Pharma & Supplemental Nutrition Solutions Vehicle						
	Dietary ingredients Kaneka QH™ (ubiquinol)	Other dietary ingredients Licorice glabra polyphenol	Plant-derived probiotics Lactobacillus brevis ssp. Coagulans	AB-Biotics probiotics Floradapt™ series	Products containing ubiquinol Supplement Product Series dietary supplements, Q10 yogurt	
Foods & Agris Solutions Vehicle						
	Pound block margarine/ Sheet margarine NOVA™ / EMPEROR™	Cacao butter equivalent Belco™	Whipping cream/ Cream for kneading and other uses LACHENTE™ / FRANJE™	Baker's yeast Kaneka™ Yeast	Frozen dough	Fats and oils/ Dough improver COCOLIN / QU1000
	Spices	Antifreeze materials Kaneka Antifreeze Protein	Processed fruits Apple preserves	Milk/milk beverages "Milk for Bread" series	Butter Kaneka Fermented Butter Unsalted	Yogurt Belgian Yogurt Pur Natur

Quality of Life Solutions Unit

Foam & Residential Techs Solutions Vehicle						
	Polypropylene foam made with the bead method Eperan-PP™	Polyethylene foam made with the bead method Eperan™	Polystyrene foam made with the bead method Kanepearl™	Extruded polystyrene foam insulation Kanelite Foam™	Extruded polystyrene foam insulation Processed Kanelite Foam™	Polystyrene foam blocks Kanepearl™ Soil Block
	External insulation and double ventilation construction method Solar Circuit™	Phase Change Materials (PCM) Kaneka PATTHERMO™				
E & I Technology Solutions Vehicle						
	Polyimide film Pixeo™, Apical™	Extremely high thermal conductivity graphite sheet Graphinity™	Transparent film for optical use Elmech™	Optical acrylic resin	Polyimide varnish	
PV & Energy management Solutions Vehicle						
	Decorative slate tile-integrated photovoltaic modules	Roof tile-integrated photovoltaic modules VISOLA™	Photovoltaic modules designed specifically for synthetic slate tiles SoltileX™	Photovoltaic modules for inclined roofs and deck roofs GRANSOLA™	See-through photovoltaic modules	
Performance Fibers Solutions Vehicle						
	Materials for hair accessory products Kanekalon™	Eco fur Kanecaron™	Flame-retardant materials Kanecaron™, Protex™	New materials Collagen fiber, others		

Health Care Solutions Unit

Medical Solutions Vehicle						
	Medical device Balloon catheter for vessel stenosis dilatation	Medical device Aneurysm embolization coil	Blood purification system LIPOSORBER™	Gastroenterology intervention High-frequency hemostat for endoscope	Regenerative medicine and cell therapy Cell washing concentration system	Genetic diagnostic products
Pharma & Supplemental Nutrition Solutions Vehicle						
	APIs and intermediates for small molecule pharmaceuticals	Products and services for biopharmaceuticals	Affinity chromatography resin for purification of monoclonal antibody KANEKA KanCapA™	Transdermal medicine		

KANEKA

<https://www.kaneka.co.jp/en/>

