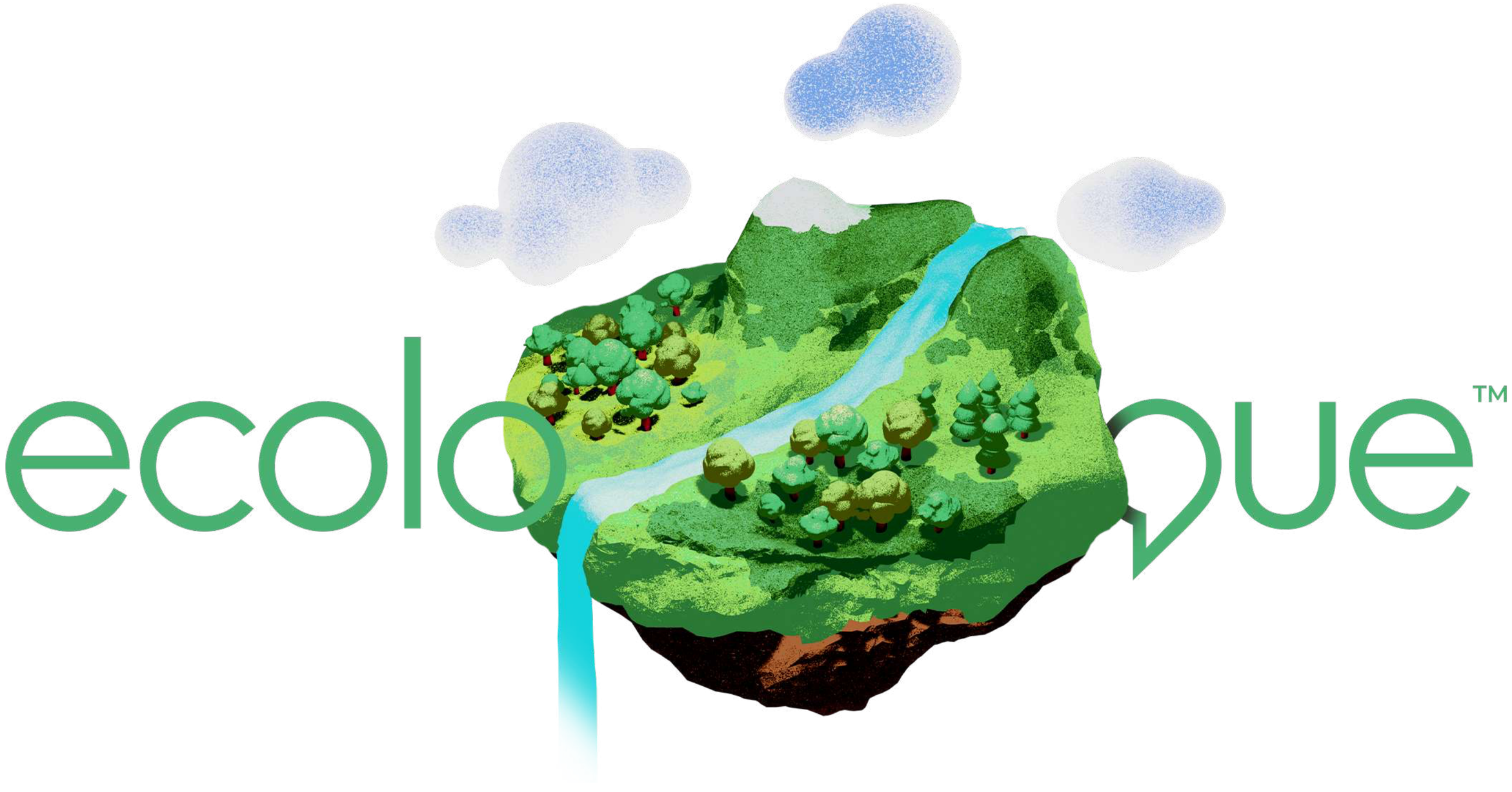


CHIMEI's Sustainable Portfolio

CHIMEI
a step up

Is biomass a practical solution for sustainability?

What does a circular economy for plastic look like?

Will we ever say goodbye to plastic waste?

Can recycled products be high-quality?

Is carbon neutrality really achievable?

ecologue™

Where Conversation Fuels Change

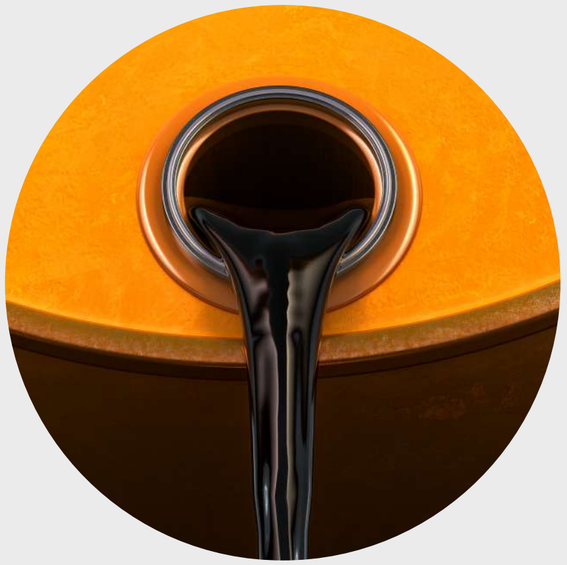
At CHIMEI, we believe that plastics, rubbers, and other performance materials can be sustainable. To achieve this, we began by asking ourselves what our role is, and how can we improve as a company. Through this portfolio, we've transformed the results of those discussions into concrete actions that boost the sustainability of performance materials.

To really make a difference, we need everyone on board. Our whole industry must join forces to establish an entire ecosystem of organizations who are committed to the circular economy. That’s why we’re constantly seeking out new opportunities to collaborate with others and share our knowledge.

Through Ecologue™, we're making three promises to the environment

To Combat Plastic Pollution

We will minimize the amount of waste we generate, and find ways to reuse end-of-life products.



To Reduce Fossil Feedstock

We will break free from our addiction to fossil feedstocks and limit the production of virgin plastic.

To Restrict Greenhouse Gas

We will decrease the amount of harmful gas that we release into the atmosphere.

Reducing our reliance on fossil feedstock

Most feedstock used in plastic production comes from crude oil or natural gas and will eventually run out. When burned, these fossil feedstocks release vast amounts of CO_2 into the atmosphere.

98% of plastic feedstock is fossil/virgin feedstock

6% of global oil consumption is used to make plastic

By 2040 scientists recommend we phase out virgin feedstock

By 2050 plastic will account for 20% of global oil consumption

Info source:
AAAS, CIEL,
Ellen MacArthur Foundation, UNEP

Cutting down on carbon emissions

Carbon dioxide is directly linked to the warming of our planet. Current CO_2 levels are now higher than any point in human history, and the last time they rose this high was 3 million years ago.

1.8 Billion tonnes of greenhouse gas was a result of plastic production in 2019

65% of all greenhouse gas emitted is CO_2 (as a result of industrial processes)

34 Billion tonnes of CO_2 is emitted each year

By 2050 plastic will account for 15% of annual CO_2 emissions

Info source:
EPA, OECD, Our World in Data, UNEP

Preventing plastic from entering our oceans

When plastic is discarded, the majority of it is sent to landfill or incinerated, with a big portion ending up in our rivers and oceans. This leaks harmful substances into the environment, damaging ecosystems, animals, and human health.

380 Million tonnes of plastic waste is produced each year

11 Million tonnes of plastic enters our oceans each year

400+ Years is how long a plastic bottle takes to decompose

By 2050 there could be more plastic than fish in the ocean

Info source:
Ellen MacArthur Foundation,
UNEP, WWF

Our action plan involves three types of innovation

Recycling Innovations

Mechanical Recycling

Chemical Recycling

Bioplastic Innovations

Biodegradable Material

Biomass Feedstock

Production Innovations

Carbon Capture & Utilization (CCU)

Recycling Innovations

Giving end-of-life products
a second chance

Mechanical Recycling

Combating Plastic Pollution

Our mechanical recycling prevents plastic from heading to landfill, and transforms it back into a raw material.

Reducing Fossil Feedstock

Recycling shrinks our virgin feedstock consumption. By ensuring our recycled materials are high quality, we’re keeping them in the cycle and prolonging their lifespan.

Chemical Recycling

Combating Plastic Pollution

Chemical recycling targets categories of plastic waste that cannot be mechanically recycled, expanding the scope of recycling.

Reducing Fossil Feedstock

Our chemically recycled materials have mechanical properties identical to virgin products. This reduces down cycling and drives demand for recycled products.

Bioplastic Innovations

Working with nature to protect the environment

Biodegradable Material

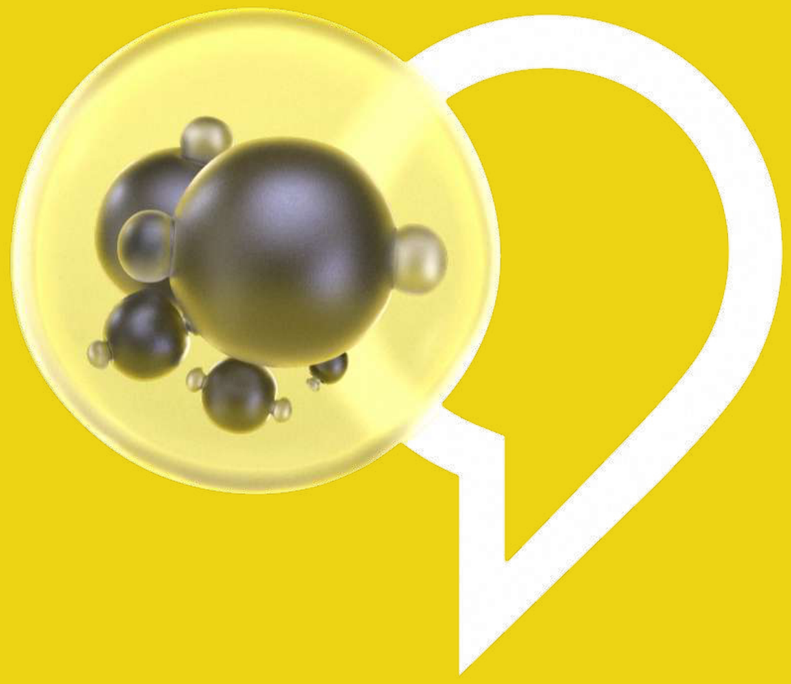
Combating Plastic Pollution

We’re developing compostable materials that will break down quickly, leaving no trace in the environment. These have the potential to replace single-use plastic packaging which represents around 40% of plastic produced globally.

Biomass Feedstock

Reducing Fossil Feedstock

We’re preparing to replace some fossil feedstock with organic matter, such as forestry residue, straw, and husks. We’ve already applied for ISCC Plus certification and will use the mass balance approach to trace it throughout our production line.



Production Innovations

Rethinking our manufacturing processes at every level

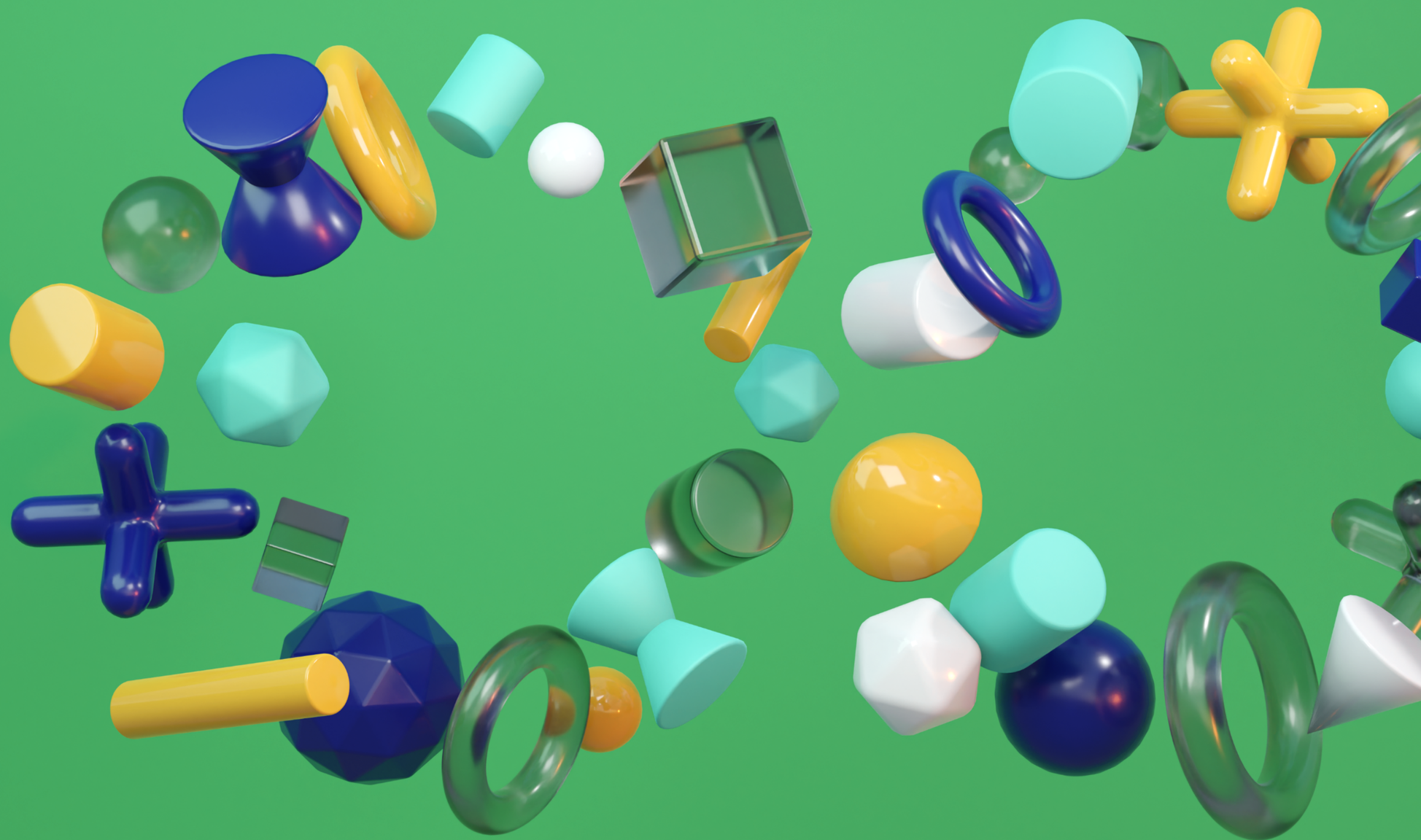
Carbon Capture & Utilization (CCU)

Restricting Greenhouse Gas

CHIMEI constantly looks for new ways to reduce CO_2 emissions and shrink our carbon footprint. That’s why, in addition to consuming less fossil feedstock, we’re also developing carbon capture and utilization technology. This method collects carbon dioxide from our flue gas and recycles it into our polycarbonate (PC) manufacturing process.

Collaborate with CHIMEI

At CHIMEI, we work alongside clients to offer them the performance materials needed to stand out in competitive markets. Collaborate with us today to discover how we can contribute to leveling up your business.



CHIMEI
a step up

Client-Side Innovation™

Our research and development process is oriented around creating tailored solutions for clients seeking to achieve new levels of performance, sustainability, and quality in their end products. Through open and collaborative innovation, we find new possibilities using our materials.

Find out more here.

An Ethical Link in Your Supply Chain

We uphold the highest environmental, labor, and ethical standards for every level of our production process. By sourcing supplies from trusted partners and upholding these standards within CHIMEI, we guarantee our clients and their customers an ethical end product.

Proven and Trusted Management Systems for Production

We use advanced management systems that guarantee we are capable of producing high-grade materials for consumer, industrial, and medical applications. We do this alongside implementing rigorous protections for whistleblowers and world-class anti-bribery standards to ensure honest and high-quality production practices.

CHIMEI is a Taiwan-based performance materials company that designs and manufactures advanced polymer materials, synthetic rubbers, and specialty chemicals.

Company Info

- Founded in 1960
- Based in Tainan, Taiwan
- World’s largest vendor of ABS resin and PMMA resin
- 3,400 employees
- 200 distributors across 100 countries
- 6.4 Billion USD of annual revenue (2021)

Our Portfolio

- Plastics
- Synthetic Rubbers
- Electronic Materials
- Specialty Chemicals
- Electronic Packaging Materials
- Color Solutions

Production capacity

- 3,700 kilotons of materials and chemicals per annum

Production facilities

- Tainan, Taiwan
- Zhenjiang, China
- Zhangzhou, China

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