

Business Strategy to Achieve Value Creation

Polymer & Oligomer

Business Profile

We handle acrylic products used in a wide range of fields, from household goods to automobiles, semiconductors and electronic materials, as well as pharmaceuticals and cosmetics. We are also engaged in the development of “AronFibro” cellulose nanofibers.

● Polymer business

Acrylic polymers are used in a wide range of fields from general-use to highly controlled products in Japan and overseas, including chemicals for water treatment, pigment dispersants in paper manufacturing, adhesives for construction, and resins for sealing materials, in addition to our key focus areas, such as mobility, electronic materials, pharmaceuticals, and cosmetics.

● Oligomer business

“ARONIX UV-curing resin” is used in a wide range of fields such as inks, paints, and electronic materials due to its environmental advantages of being solvent-free.

● Flocculant business

Polymer flocculants are used as agents for purifying domestic and industrial wastewater, as well as in paper manufacturing and other applications.

Executive Officer,
General Manager,
Polymer & Oligomer Division
Hiroaki Ishii



The Polymer & Oligomer business is expanding its lineup of high-value-added products developed with the fusion of high-purification technology accumulated over many years based on its outstanding synthesis and polymerization technologies. Through this initiative, the business will achieve development in overseas markets and play a central role in the growth strategy of the entire Group.

FY2025 in Review

● Polymer business

Sales increased due to higher sales volume of products for cosmetics and semiconductor applications. We promoted the expansion of production facilities for lithium-ion secondary battery products and pharmaceuticals and cosmetics, as well as R&D of high-performance polymers for semiconductors.

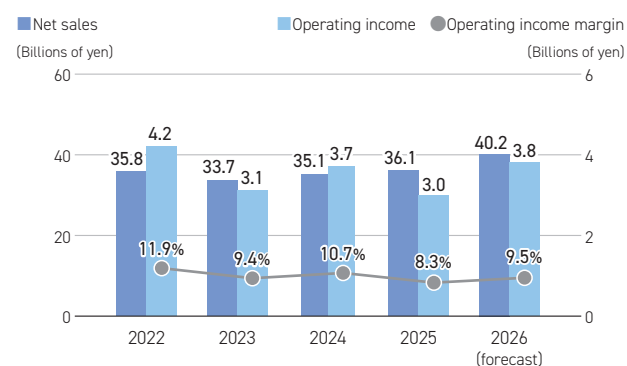
● Oligomer business

Although display manufacturing-related products performed strongly in Japan and overseas, profit decreased due to soaring raw fuel prices. To respond to an increase in demand in AI-related fields, we established an optimal production system spanning three sites—Japan, Taiwan, and China.

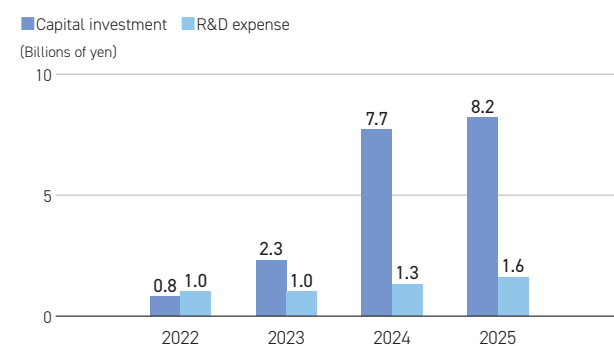
● Flocculant business

Revenue increased due to higher sales volume for overseas markets and improved profitability in the domestic market. We made steady progress on enhancing competitiveness by optimizing our production system, launched high-performance products with excellent sludge dehydration performance, and worked on strengthening our business base.

Segment net sales and operating income



Capital investment and R&D expense



Competitive Advantages, Issues, and Growth Opportunities

	Polymer business	Oligomer business	Flocculant business
Competitive advantages	We can address a wide variety of customer needs through advanced customization technologies (linear, branched, cross-linked, granularity, molecular structure, etc.) and impurities reduction technologies (residual substances, residual liquids, metal impurities, etc.)	The radical-curing ARONIX lineup centers on multifunctional acrylates, and cationic oxetane is also included in the lineup	- We provide high-quality products through manufacturing technology and structural control technology with excellent productivity - We cater to a wide variety of customer needs as the only Japanese manufacturer handling both powdered and liquid products
Issues	Optimizing production sites to increase competitiveness on a global scale	Developing differentiated products with globally competitive quality	Expanding our lineup of globally cost-competitive high-performance products
Growth opportunities	Leverage structural control and high-purification technology to expand applications in the pharmaceutical, cosmetic and semiconductor fields	Expand sales in the fields of electronics, semiconductors, and AI	Contribute to the reduction of energy consumption in the aqueous environment field through structural control technology, expand applications to food and pharmaceuticals and enter the water infrastructure market, primarily in Southeast Asia

Medium- to Long-term Growth Strategy

Polymer business

We are creating high-performance, high-purity polymers required in a diverse range of fields, primarily focused on the key areas of automotive, electronic materials, pharmaceuticals and cosmetics, to meet the needs of the market.

Overseas, we are expanding products to meet the diverse needs of local customers, mainly through Toagosei (Shanghai) Management Co., Ltd., and Toagosei (Thailand) Co., Ltd., in cooperation with Taiwan Toagosei Co., Ltd. and Toagosei America Inc.

Oligomer business

Based on multifunctional acrylates, we will accelerate the development of new products with added functions such as fast curing, thin-film curing, and microfabrication properties to expand sales in the optical materials and electronic materials fields.

To respond to the carbon neutral era, we will consider reducing CO₂ emissions from manufacturing.

In terms of the overseas sector, we are focusing on launching high-value-added products through product development suited to the needs of local customers primarily in the semiconductor and electronic materials fields through the services of our production sites in Taiwan and China.

Flocculant business

With its high-quality ARONFLOC, ACCOFLOC and DIAFLOC polymer flocculant, Group member company MT AquaPolymer, Inc. will provide superior products for solid-liquid separation and aggregation and fitting solutions for a wide range of increasingly diverse applications.

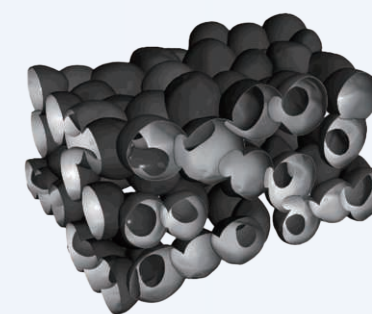
In addition, we will contribute to addressing social issues such as carbon neutrality through new product development, while actively promoting overseas expansion, primarily in Southeast Asia, and enhancing cost competitiveness by optimizing our production system.

FOCUS TOPICS

Investment in 3DC Inc. (“3DC”)

3DC is a startup company from Tohoku University that aims to commercialize a next-generation carbon material, “Graphene MesoSponge® (GMS),” as a conductive additive for lithium-ion battery materials. GMS is a new material with an extremely thin carbon layer forming a sponge-like three-dimensional structure, offering various outstanding characteristics such as flexibility, porosity, electrical conductivity, and corrosion resistance.

Through this investment, we will promote technical cooperation in the battery field and jointly work on the practical application of innovative materials and the creation of new businesses.



GMS (Source: 3DC)



Illustration of practical application in the battery field