

RIMTEC

RIMTEC Corporation

Business Description

Sales of RIM (reaction injection molding) compound and molded products

Established in 2003, Rimtec has an integrated production system starting from the raw material dicyclopentadiene to the final compound, and bringing together original compounding, molding, and design technologies to produce and sell a wide variety of molded products such as homebuilder materials and automotive bumpers.

Our head office is located in Tokyo. We have a research laboratory in Zeon Corporation's Mizushima Plant, and the subsidiary Telene S.A.S. (France) with an R&D function in France. We also have a U.S. sales office, Zeon Chemicals L.P. Rimtec acquired and merged with Zeon Rim, a manufacturer of molded products, on April 1, 2020.

No. of Employees

As of March 31, 2021: 30 (25 men, 5 women)

Hiring in FY2020: 2 (2 men, 0 woman)



Mizushima Plant

Examples of molded products



Bathub unit

Truck bumper



Water purification tank

Company Policy (Executive Message)

RIM molding using the raw material dicyclopentadiene (an olefin-based thermosetting resin) is an innovative energy-saving, resource-saving technology which, compared to molding using other types of resin, generates relatively limited CO₂ emissions over the processes of raw materials procurement, resin preparation, forming and waste disposal. Rimtec is thus able to supply environmentally-friendly resin blending liquid all over the world.

Rimtec's large molded products are lightweight and feature excellent shock resistance, and as a result have a wide range of applications. These include large products with complex shapes, such as construction and agricultural machinery body panels, and truck and bus body panels, as well as water purification tanks, large valves, housing construction materials, etc.

In addition, we are developing electrical and electronic applications that require good filling properties for filling small spaces (taking advantage of our products' low viscosity) and low dielectric properties, and high-frequency applications. We also expect to develop a wide range of new applications through the development of new adhesion methods for filler, fiber and metals.

Rimtec seeks to contribute to improvement of the global environment and development of new products by expanding our business for environmentally-friendly RIM blended compound for molding while contributing to employment at production contractors and customers, and helping to revitalize local communities.



President
Takashi Nakayama

Safety Initiatives

Policy

Safety First! Employees act responsibly and coordinate closely with production contractors and customers to achieve zero accidents and disasters.

Specific Initiatives

1. Production quality meetings with production contractors

•We report on production and quality management, and provide education on chemical substance regulations and accident case studies.

2. Mutual inspections with production contractors (once/year)

•Rimtec’s Mizushima Plant and our production contractors jointly perform mutual RC activities, 5S and safety inspections.

3. Customer safety education (once/year)

- Distribute safety education materials to all customers
- Conduct briefings on the latest versions of laws and regulations
- Visit new customers to give guidance

4. Corporate culture development

- Since FY2015, we have been conducting mutual 5S safety activities with production contractors.
- Since FY2017, we have been carrying out monthly productivity improvement activities for production contractors, in collaboration with the NPS Promotion Group at Zeon’s Production Innovation Center.

Environmental Impact Reductions

Policy

- Increase thermal recycling of waste plastic, and begin surveys and research on chemical recycling and material recycling
- Reduce the environmental impact of substances in products based on the regulations in various countries

Specific Initiatives

1. Reducing industrial waste discharge

We have been working to reduce landfill waste since FY2015 and have made further reductions by establishing a route for sorting and recovering middle insert components in waste plastic, recycling metal components, and conducting thermal recycling of waste plastic components.

2. Compliance with the laws and regulations of applicable countries

We confirm the laws and regulations of various countries with our global subsidiaries, and are targeting product development and sales expansion to reduce environmental impact.



Product reviews at Three-Region Technology Meetings

3. Environmental Data

* “0” indicates less than 0.5 tons, and “0.0” indicates less than 0.05 tons

Rimtec Corporation		FY2016	FY2017	FY2018	FY2019	FY2020
Substances subject to the PRTR Act	No. of substances	0	0	0	0	1
	Consumption (tons)	0	0	0	0	3
	Emissions (tons)	0	0	0	0	0
Industrial waste	Amount generated before compacting (tons)	39	7	54	61	74
	Amount sent to landfills (tons)	0.3	0.0	1.2	2.0	0.9
Water resource consumption (1,000 m ³) (industrial water + groundwater + waterworks)		1.4	1.9	1.4	1.4	2.4

CO ₂ emissions (tons)	152	136	149	197	219
Energy consumption (crude oil equivalent, kL)	78	68	77	109	96

Relationship with Employees

Policy

We strive to be a company that understands and welcomes the diverse values and backgrounds of employees regardless of gender, age, nationality, or other attribute, and where employees can take pride in working. We are focused on developing world-class human resources.

Specific Initiatives

1. Development of world-class human resources

•Participate actively in overseas regulatory seminars so as to be able to prevent legal problems from developing •While our in-house operatives already provide overseas technical instruction for operations staff using online chat and Zoom, there are limits as to what can be achieved using this approach, so we are creating technical support video content, with the aim of completing it by the end of March 2022

2. Sharing our values

- We formulated the Mission Statement of Global RIMTEC Group to establish global values.
- Through the holding of Taimatsu (Torchlight) activities, we are working to strengthen dialog within the RIMTEC Group, and to enhance the collaborative relationship between Group member companies.
- We are encouraging all RIMTEC Group employees to ambitiously challenge themselves to realize their goals for 2030.



Taimatsu (Torchlight) activities conducted jointly by three regions

Relationship with the Local Community

Grow together with the community and contribute to community revitalization, leading to the sustained development of Rimtec.

Specific Initiatives

1. Firefighting activities and cherry blossom viewing with a local firefighting department

The cherry blossom viewing with partner companies, the volunteer fire corps, and local residents from the Honjo district, which in past years was held regularly after firefighting training, had to be cancelled this year because of the COVID-19 pandemic.

In the future, we plan to strengthen ties with everyone in the local community by holding get-together events using different formats.



Firefighting training (top), cherry blossom viewing (bottom) in the spring of 2019

2. Participation in Omoshiro Taiken (fun experience), a public event held at Okayama Research Park

Omoshiro Taiken, which is organized by Okayama Prefectural Government and which Rimtec had been participating in every year since 2012, was cancelled this year because of the COVID-19 pandemic.

This event provides children with the opportunity to experience science and technology in a fun manner. Children are able to visually experience the processes by which the raw materials based on the chemical reactions that we use to produce resin. We are looking forward to participating in this event again if it is relaunched in the future.



Omoshiro Taiken (fun experience) held in the summer of 2019

3. R&D through industry-university collaboration

Rimtec's Mizushima Plant conducts joint research to develop fundamental technologies in collaboration with Okayama University and Kyushu Institute of Technology.

We also undertake collaborative research on application products with the Railway Technical Research Institute (RTRI).

4. Industry creation in the Chugoku region

To further the development of new catalysts, we undertake the development of various types of catalysts using 5L glass reactors at a laboratory in Okayama University's Collaborative Research Center.

We also make effective use of a prototype development room (100m³) and laboratory (50m³) at the Okayama Researchpark Incubation Center (ORIC) to develop prototypes of new types of electrical insulating materials, etc. The photo on the right shows a 200L mixing tank installation, operation of which began in December 2021.



100m³ prototype development room

5. Presentations

We presented research findings regarding "composite molding resin of hydrocarbon based thermosetting resin and fullerene C60" based on collaborative research with the Kyushu Institute of Technology to the Institute of Electrical Engineers of Japan (IEEJ). We also gave a joint presentation, with the Kyushu Institute of Technology, on the resistance to dielectric breakdown of hydrocarbon based thermosetting resin, at the annual meeting of the IEEJ, held in March 2021. Another presentation was given in December 2020 at the 99th Meeting of the Cryogenics and Superconductivity Society of Japan.