

# RIMTEC

## RIMTEC Corporation

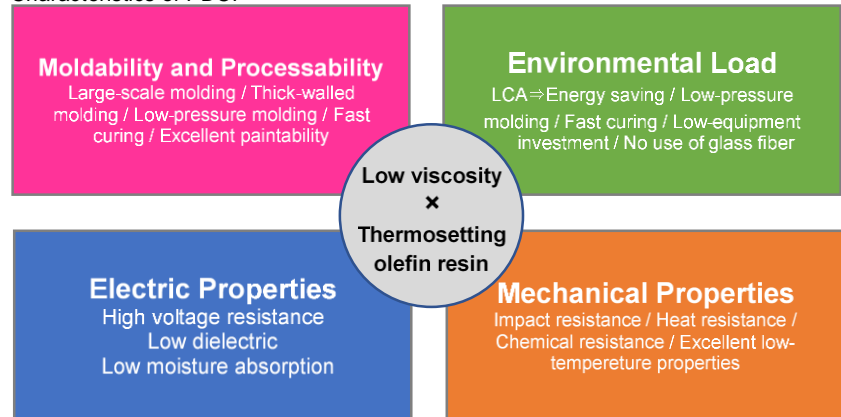
### Business Description

Manufacture and sale of compounds using polydicyclopentadiene (PDCP) and various RIM molded products

PDCP is suited to applications in molding involving large or complex shapes, or materials in which low viscosity, low dielectric constants, or cryogenic properties are required. They are a global environmentally-friendly resin due to lowered emission of carbon dioxide in the processes from raw material procurement to the preparation, molding, and disposal of resin materials (Life Cycle Assessment; LCA), when compared to other major resins and molding materials.

Established in 2003, Rimtec's 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.

#### Characteristics of PDCP



### No. of Employees

As of March 31, 2022: 32 (25 men, 7 women)

## 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 CO<sub>2</sub> 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		FY2017	FY2018	FY2019	FY2020	FY2021
Substances subject to the PRTR Act	No. of substances	0	0	0	1	1
	Consumption (tons)	0	0	0	3	12
	Emissions (tons)	0	0	0	0	0
Industrial waste	Amount generated before compacting (tons)	7	54	61	74	81
	Amount sent to landfills (tons)	0.0	1.2	2.0	0.9	0.0
Water resource consumption (1,000 m <sup>3</sup> ) (industrial water + groundwater + waterworks)		1.9	1.4	1.4	2.4	1.2
CO <sub>2</sub> emissions (tons) Standards on the promotion of energy-saving/global warming countermeasures		136	149	197	219	194
CO <sub>2</sub> emissions (tons) Scope 1		-	-	-	-	4
CO <sub>2</sub> emissions (tons) Scope 2		-	-	-	-	190
CO <sub>2</sub> emissions (tons) Scope 1+2		-	-	-	-	194
Energy consumption (crude oil equivalent, kL)		68	77	109	96	95

**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**

- We participate actively in overseas regulatory seminars to ensure thorough compliance with laws and regulations
- We actively utilize resources such as online chat and Zoom to provide technical support to customers overseas. We also publicly share overviews of our technologies via YouTube.

**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 (100m<sup>3</sup>) and laboratory (50m<sup>3</sup>) 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, which has been operational since October 2021.



100m<sup>3</sup> 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.