

## ZEON Group (Japan)

### Zeon Kasei Co., Ltd.

#### Introduction to Zeon Kasei Co., Ltd.

Zeon Kasei Co., Ltd. was established in 1981 from the “Manufactured Products Division” of Zeon operation. As the core company in the category of manufactured products within the Zeon Group, Zeon Kasei has developed by business expansion of “Plastic Compounds<sup>\*1</sup>,” “Packing Materials,” “Housing Materials,” “Films,” “Thermal Conductive Sheets,” “Deodorants” and “Logistics Materials.” As part of our global strategy, in Feb. 2012 we established a factory for “Powder Compounds for slush molding<sup>\*2</sup>” in China, which started commercial production in July. Furthermore, by completing our second series to boost productive capacity accompanying sales growth, production started in November 2013. Based on the keywords “Ecology” and “Amenity,” we continue contributing to society in various fields.



President Yoshiro Ogura

<sup>\*1</sup> Plastic Compounds

Molding materials composed of plastic resin, colorants and other additives.

<sup>\*2</sup> Powder Compounds for slush molding

Powder compounds for one of the production methods for soft and thin skins, particularly for car interior or toys.



Zeon Kasei's Yamaguchi Plant



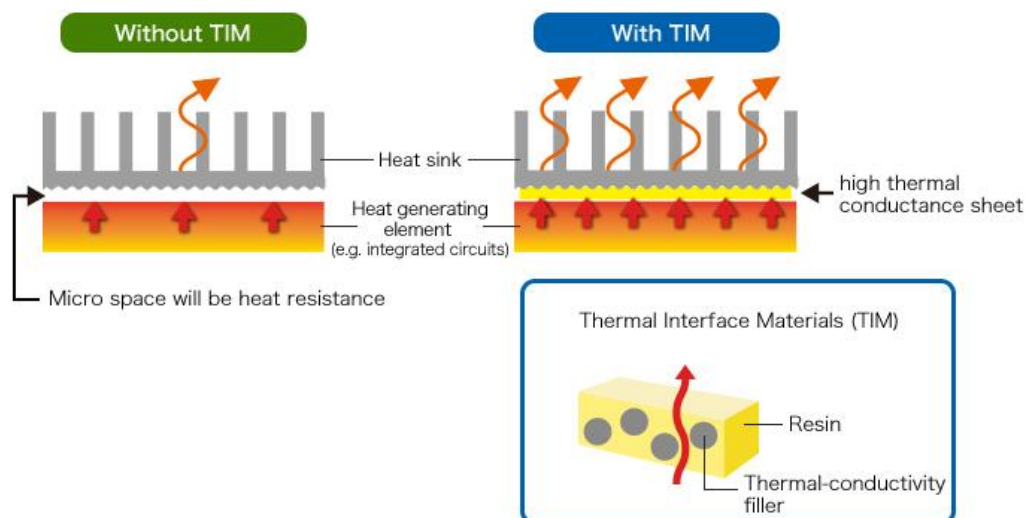
Zeon Kasei (Changshu) Co.,Ltd.

#### Environmental and Safety Activities

##### 1. Saving Energy with our Products

In February 2012, a major consumer electronics manufacturer adopted our high-thermal-conductivity sheet for its LED lamps. Since then, our application development over a broad array of products, including electronic equipment applications requiring heat dissipation measures and automotive component applications have progressed.

### Heat dissipation effect by high-thermal-conductivity sheet



## 2. Reducing Waste in Our Operations

From fiscal 2012, we grew a green curtain at the office building of the Ibaraki Factory as a part of our summer energy conservation measures, which we also implemented at the Yamaguchi Plant in fiscal 2013. In fiscal 2014, we have implemented these again at both plants. We planted bitter melon and Ryukyu morning glory in planters and tended them with care. We are reducing our air conditioner usage and therefore our power consumption as the green curtain shades the building from the sunlight. In addition, caring for the plants helped raise employee consciousness of saving electricity and also their eco-awareness. Moreover, at Zeon Kasei, we are abiding by our zero landfill goal, which we implemented at all of our factories in April 2011.



Green curtain at Ibaraki Factory

## 3. Environmental Data

Zeon Kasei Co., Ltd. Ibaraki Factory		FY2010	FY2011	FY2012	FY2013	FY2014
Substances covered by PRTR law	Number of substances	7	7	8	7	6
	Consumption (tons)	95	61	40	35	49
	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	648	529	446	478	389
	Amount sent to landfill (tons)	69	0.0	0.0	0.0	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m <sup>3</sup> )		34	41	30	29	19
CO <sub>2</sub> emissions (tons)		4,257	3,845	3,283	3,723	3,468
Energy consumption (crude oil equivalent, kL)		2,328	2,191	1,807	1,875	1,545

Zeon Kasei Co., Ltd. Yamaguchi Factory		FY2010	FY2011	FY2012	FY2013	FY2014
Substances covered by PRTR law	Number of substances	3	3	3	3	3
	Consumption (tons)	0.0	0.0	0.0	0.0	0.0
	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	99	91	57	91	151
	Amount sent to landfill (tons)	0.0	0.0	0.0	0.0	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m <sup>3</sup> )		0.2	0.2	0.2	0.3	0.0
CO <sub>2</sub> emissions (tons)		231	412	416	410	460
Energy consumption (crude oil equivalent, kL)		94	147	151	155	166

## Activities with the Local Community

### 1. Participating in the Bando City Cherry Blossom Festival

Ibaraki Zeon Kasei participated in the 5th Bando City Cherry Blossom Festival organized by Bando City on April 5 and 6, 2014.

The cherry blossom bloomed early in fiscal 2013 so the festival that year was held when the trees were in leaf. This year, however, the trees were in full bloom, and the both days were full of activity. We will also support this festival next year as we try to strengthen local connections.



Cherry Blossom Festival



Cherry blossoms on both sides of the road from the park to the stadium

### 2. Participating in the Tokyo Station Regional Joint Patrol

The Zeon Kasei Head Office has been participating in the joint patrol of the area surrounding Tokyo Station since November 2012 as a Zeon Group initiative. We collected garbage in the area surrounding Tokyo Station in July and the following March, making a total of two times in fiscal 2014. The garbage bags were completely filled after just one hour as a lot of garbage had been dropped in the middle of the streets, including plastic umbrellas and cigarette ends. We will continue to participate in this activity while we hope for manners to improve.



Tokyo Station Regional Joint Patrol