

)(平和化学工業所
Heiwa Kagaku Industrie Co., Ltd.



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**Bottling the Promise
of Tomorrow**





Bottling the Promise of Tomorrow

At Heiwa Kagaku Industries, we believe in transforming potential into reality. The environmental impact of plastic calls for thoughtful action. While plastic has contributed to our convenience, we understand the need for change.

Our innovative approach uses waste materials to create packaging solutions, including bottles made from biomass and recycled content. Each bottle reflects our promise to reduce plastic consumption and move towards a more sustainable future.

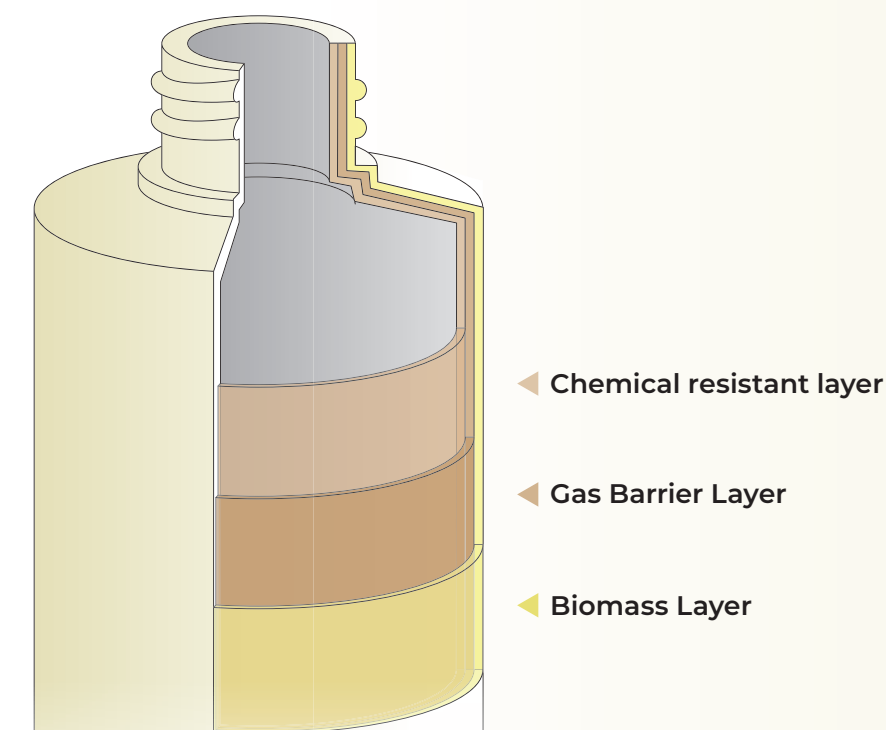
Driven by a passion for innovation and a commitment to the planet, we craft products that meet today's needs while considering tomorrow's well-being.

Join us in this journey towards a brighter, more responsible future, one bottle at a time.

Multi-layer Structure

The inner layer, which comes into contact with the contents, is made of polyethylene derived from sugar cane. This polyethylene is certified by the US FDA as a food contact material and can be used safely in food and cosmetic applications. Its chemical resistance is equivalent to that of general polyethylene derived from petroleum. There is no need to worry about biomass-derived components leaching to the contents.

Our laminated blow molding technology allows us to create bottles with **up to nine layers**. The middle layer can be laminated with functional materials, such as gas barrier resins. This achieves a high level of "prevention of content deterioration," "assurance of safety," and "environmental friendliness".



Bottle Materials



Eggshell

Eggshell usage > 28%
Biomass content > 71%



Wood

Wood usage > 10%
Biomass content > 84%



Shell

Shell usage > 11%
Biomass content > 93%



Bamboo

Bamboo usage > 9%
Biomass content > 57%



Rice Husk

Rice Husk usage > 22%
Biomass content > 73%



Grape Skin

Grape Skin usage > 9%
Biomass content > 72%



Rice Bran

Rice Bran usage > 28%
Biomass content > 76%



Paper Pulp

Paper Pulp usage > 20%
Biomass content > 75%



Processing



Stripe

Two or more colors of resin are extruded and molded simultaneously using a special lamination method. Partially translucent or color-coded on the product' s front and/or back are also available to check the amount of liquid remaining.



Gradation

The products are decorated on a gradation by laminating and molding two different colored resins. This process enables continuous decoration on curved surfaces, where printing is impossible.

Company Overview

Company Name	Heiwa Kagaku Industry Co., Ltd.
Founded	April 1957
Capital	10 million yen
Representative Director	Kazuyuki Hatakeyama
Businesses	Manufacture and sale of various plastic products (Cosmetics containers, chemical containers, food containers, industrial components)
Facilities and equipment	Blow Hollow molding machines TPF-454 (4 units) TPF-555 (4 units) TB-SW-7P (multi-layer hollow molding machine) (6 units), etc.
Employees	40
Welfare program facilities	Membership-based resort hotels (Tokyu Harvest Club located throughout Japan)
Principal bankers	Chiba Bank Ichikawa Branch Hachijuni Bank Iwamurada Branch Mizuho Bank Funabashi Branch
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