

Eco-Friendly Products

The Otsuka group strives for environmental conservation through its products. It is working to develop eco-friendly products that reduce the environmental impact throughout the product life cycle, including measures for environmentally friendly disposal.



Otsuka Pharmaceutical Factory: OS-1, an oral rehydration solution



Otsuka Foods: Short flap box for 500-ml Match bottles

Lighter Bottles

The Otsuka group has introduced lighter containers that conserve resources and reduce CO₂ emissions. When they were launched in 2007, Otsuka Pharmaceutical's 500 ml plastic bottles of POCARI SWEAT were the lightest in Japan. The weight of the bottles was reduced by introducing a method called "positive pressure aseptic filling" to the bottling lines, a first for Japan. Now the bottle washing and sterilizing processes have been eliminated, as the company produces preforms in-house from raw PET plastic material. The group has taken a number of actions to reduce the weight of product packaging including: changing the bottle design in 2016 from square to round design for OS-1 oral

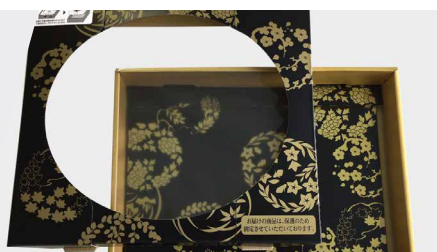
rehydration solution plastic bottles; introducing thinner microwave pouches (reducing weight by 7%) for Bon Curry Gold; reducing the weight of glass bottles while still maintaining break resistance for Tiovita Drink; lowering packaging film weight for SOYJOY; and redesigning containers to reduce overall resin usage for jelly-type products such as Calorie Mate. Otsuka Techno has also achieved weight savings through innovative plastic packaging redesign.

Lighter and Smaller Packaging

The Otsuka group is taking measures to reduce the weight of cardboard and other product packaging materials. Otsuka Foods is reducing the weight of outer cardboard boxes used for its carbonated beverage, Match. A shorter box flap design for the 500-ml Berry Match released in March 2016 reduced cardboard use by 16%. The new box design is being adopted for other Match products starting March 2017.



Otsuka Pharmaceutical: ABILIFY MAINTENA



Otsuka Packaging Industries: Packaging that eliminates the need of cushioning material through the use of film wrap



Nutrition & Santé products

Product Development Targeting Both User Convenience and Waste Reduction

Innovative packaging for the antipsychotic ABILIFY MAINTENA features improved impact resistance during distribution, ease of package removal and disposal by medical staff. Otsuka received an award in the pharmaceutical division from the 2016 Japan Packaging Competition for the extensive and creative design of this package. Regarding Adacolumn, a blood cell purification device, a panel used for treatment was eliminated, which reduced packaging size and user medical waste. Additionally, shipping volume and shipping weight were reduced. Otsuka Packaging Industries proposes and manufactures eco-friendly packaging materials

with improved material quality and packaging formats. Innovations in packaging containers include food-product biomass trays, which are made from plant-derived (sugar cane) polyethylene, tapeless interlocking boxes, and innovative cushioned boxes that prevent bottle breakage. The results of these initiatives are also being publicized through environmental exhibitions.

Sustainable Product Design

Nutrition & Santé SAS, based in southern France, implements its own eco-design charter to ensure that environmental impact is considered at all stages, from product development and ingredients procurement, to manufacturing, packaging material design, and product transport.