

ENVIRONMENTAL
REPORT

Vol. **18**

Our packages contribute to both customers and society's initiatives in environmental sustainability.

Recently, social awareness about the environment, such as marine plastic, is intensively spreading. In fact, we have been making attempts in Reduce – Recycle – Reuse activities. We would like to introduce some of our efforts.

Fuji Seal Group Initiatives on Water-based Printing

Fuji Seal Group recognizes climate change, the issue of marine plastic (Conservation of biodiversity), and resource depletion as important environmental issues to be resolved. In order to deliver value that is friendly to people and the environment, we contribute positively to the environment through our products and services, and we are also working to reduce the environmental burden during our manufacturing.

Generally, shrink labels have been printed using oil-based inks with organic solvents as diluents from the viewpoint of ink functionality, such as graphical expression and resistance against contents. Fuji Seal Group is introducing printing processes with alternative water-based inks in order to reduce the impact on air pollution and climate change. This initiative is expected to significantly reduce emissions of volatile organic compounds (VOCs), one of the causes of suspended particulate matter and photochemical oxidants, as well as reduce CO2 emissions per label*, resulting in the reduction of Scope 3 of greenhouse gas (GHG) emissions throughout the entire supply chain.

*Compared to conventional oil-based printing process,
CO2 emissions per label are reduced by approximately 30% in a typical multi-color design.

■ Example: a product printed by water-based printing

In July 2022, Suntory Beverage & Food Limited adopted shrink sleeves produced by water-based flexographic printing for "Suntory Oolong Tea OTPP (600ml)". Compared to conventional oil-based gravure printing, the new printing method reduces CO2 emissions by about 55% or total annual emissions of 160.9 tons*.

*Estimation based on the calculation conditions by General Incorporated Association Sustainable Management Promotion Organization (SUMPO).

The water-based flexographic printing was adopted after our joint development and repeated verification with Seki Co., Ltd. where the functionality of the ink, including graphical expression, was improved to be at the same level as existing products.

[product package]

