Function of “Soarnol®” for Paper Carton Pack for Orange Juice

In case of paper carton pack for orange juice, “Soarnol®” is applied to the innermost layer and the outermost layer. The innermost layer “Soarnol®” is used to preserve adsorption of aroma component (d-Limonene).

On the other hand, the outermost layer is used to prevent permeability of oxygen gas from outside air and to prevent breakdown of vitamin C.

(1) Effect of the Innermost Layer “Soarnol®”

Layer Construction: Web/A4412/LDPE/A4412/Orange Juice

![Graph showing the effect of Soarnol® on d-Limonene residual over time.](image-url)
(2) Effect of the Outermost Layer “Soarnol®”

Layer Construction: Web/A4412/LDPE/A4412/Orange Juice

![Graph showing the effect of the outermost layer on residual Vitamin C](image)

- Vitamin C/A4412
- Vitamin C/LDPE

20 deg C, 65% RH, Light Shielding

Data Prepared: 1 Sep. 2003