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Toyobo develops ECOSYAR™ VP001, a transparent vapor-deposition BOPP film: product helps reduce food loss, make polyolefin mono-material packaging

Toyobo Co., Ltd. has developed a new biaxially oriented polypropylene (BOPP) film ECOSYAR™ VP001, the first transparent vapor-deposition film ECOSYAR™ series product that uses a polyolefin*¹ material. Sample will be available by end of 2022 and is scheduled to be launched by the end of September 2023.

There is an increasing demand for environmentally friendly food and other packaging materials such as products with functions to reduce food loss and with excellent recyclability for reducing the environmental impact of packaging as sustainable awareness continues to rise around the world. Food packing films, which must meet high functionality standards, are made up of several materials with different properties, such as PET films, aluminum foil and polyethylene films. However, these types of packaging, called multi-layer, are not easy to recycle because they contain multiple materials.

ECOSYAR™ VP001 is a high gas barrier film for packaging, made by using Toyobo's vapor deposition technology with a special high-heat resistant BOPP film. This new product has excellent barrier properties against oxygen gas and water vapor, keeping food contents fresh and extending their shelf life to reduce food loss and waste. The product also has excellent heat resistance. Toyobo plans to promote the replacement of films made from other materials with ECOSYAR™ VP001 to make polyolefin mono-material packaging for sterilization and general use.

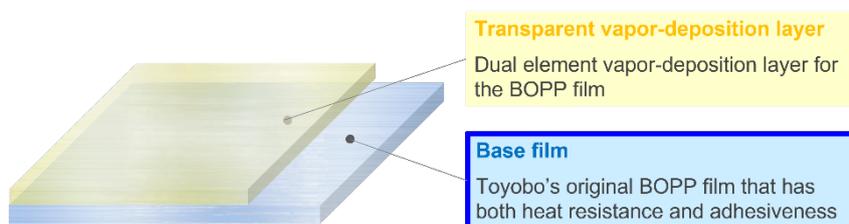
Toyobo has already launched products suitable for mono-material, such as a gas barrier BOPP film DP065*² for dry application and OLYESTER™, a polyester film with a heat-sealing function. Toyobo is committed to helping realize a sustainable society by supplying eco-friendly products.

*1: A polymer made of monomers that have hydrogen and carbon linked by a double bond, such as polypropylene and polyethylene.

*2: Refer to Toyobo's press release dated February 1, 2021, and titled "Toyobo develops new functional OPP barrier film: product designed to promote mono-material packaging, plastic recycling." https://www.toyobo-global.com/news/2021/release_326.html

About ECOSYAR™ VP001

Structure;



ECOSYAR™ VP001

Features;

- Excellent high gas barrier properties with vapor-deposition layer.
- High-heat resistance for sterilization and general use.
- Excellent processing suitability such as laminating and bag making.
- High-heat resistant BOPP film as a base film.
- No chlorines contented : no emissions of gas containing chlorine and its compounds when recycled or incinerated.
- Complies with Japan's Product Liability Act and Ministry of Health, Labor and Welfare's public notice No. 370.

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