

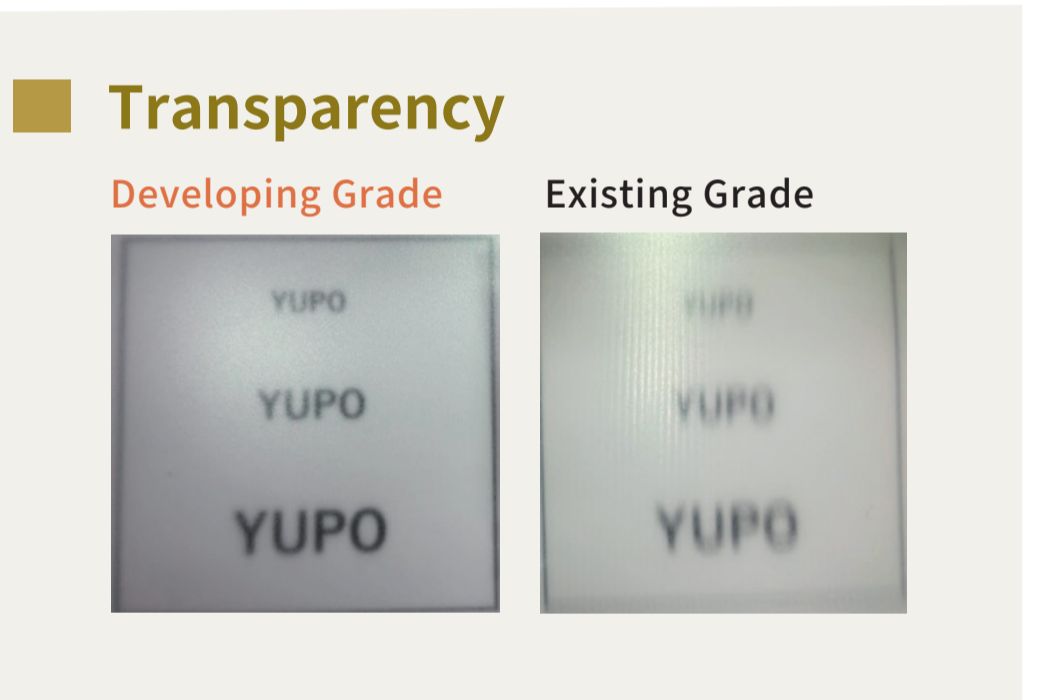
Proposal for All-Polypropylene Bottle & Label



Use **Bottles for Cosmetics and Toiletry Products**

Background In multi-material packaging structures where bottles and labels are made from different materials, challenges can arise in the recycling process due to the need for separation and additional handling. In addition, when label transparency is insufficient, it can compromise the container's appearance and reduce its branding effectiveness.

- Key Features**
- Monomaterial design using PP for both bottle and label enables seamless recyclability.
 - High transparency achieved with YOPO in mold labels using its unique surface roughening technology.
 - Antistatic properties and appropriately designed stiffness contribute to production stability in printing, die-cutting, and container molding.
 - Corona treatment is not required, allowing for a wide range of printing and decorative processes, which provides high design flexibility.



Label Properties

		Developing Grade	Existing Grade
Thickness	μm	78	77
Basis Weight	g/m ²	69	69
Density	g/cm ³	0.88	0.90
Haze	%	43	57
AS Value	log(Ω/□)	11	15
Adhesion to PE	-	○	○
Adhesion to PP	-	○	×

- Expected Use Cases**
- Cosmetic Containers (e.g., Shampoo, Conditioner)
 - Toiletry Products (e.g., Hand soap, Body wash)
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※Image shown is a sample using YUPO transparent label.
 ※"YUPO" is a registered trademark of YUPO Corporation.

Label supported by YUPO CORPORATION