THINK Water-Based Flexible Packaging Inks

Color That's in the Bag

Toyo Ink water-based gravure and flexo inks offer quality, high-speed commercial packaging solutions across a wide range of substrates. For long or short print runs, these high-performance inks enhance productivity by delivering reliable, high-resolution results. It's like getting free dip with your chips.

Product Overview

AquaEcol Water-Based Gravure Inks are suitable for long print runs on a wide range of substrates. Offers high resolution and strong color properties. Retortable up to 250°F.

AquaLiona Water-Based Flexo Inks deliver high-speed, high-resolution results over a broad range of substrates (including OPP, PET, Nylon).

TOYO INK

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Features and Benefits

AquaEcol Line

Features

- Prints on a wide range of substrates including OPP, PET, nylon and PVDC-coated film
- Retortable up to 250°F (with hardener)
- High-resolution
- High-color strength
- Good color and viscosity hold

Benefits

- Balances health and environmental concerns
- Maintains print quality over long-runs
- Environmentally friendly

AquaLiona Line

Features

- Prints on a various film types including OPP, PET, and nylon
- High-speed printability
- Reduce environmental impact
- Reliable image quality

Benefits

- Green choice of flexo printing
- No solvent odor
- Environmentally friendly

For product information, contact:
Toyo Color America, 1-201-287-4000.

Printed with HyPlus EC Process Series

Applications

AquaEcol Line

Application	Lamination		Substrates			
			OPP	PET	Nylon	PVDC Coated Film
Non-Boil	Extrusion Lamination	Polyethyleneimine Type AC	A	A	A	A
		Polybutadiene Type AC	A	A	A	A
		Isocyanate Type AC	A	A	A *A[1]	A
	Adhesive Lamination	Solvent-Less Adhesive	A *A[2]	A *A[2]	A *A[2]	A *A[2]
		Solvent-Based Adhesive	A	A	A	A
Boil (212°F/100°C 30 min.)	Extrusion Lamination	Isocyanate Type AC	–	N	N	N
	Adhesive Lamination	Solvent-Less Adhesive	–	*A[3]	*A[3]	*A[3]
		Solvent-Based Adhesive	–	*A[3]	*A[3]	*A[3]
Retort (248°F/120°C 30 min.)	Adhesive Lamination	Solvent-Based Adhesive	–	*A[3]	*A[3]	–
High Retort (275°F/135°C 30 min.)	Adhesive Lamination	Solvent-Based Adhesive	–	*A[3]	*A[3]	–

AquaLiona Line

Application	Lamination		Substrates			
			OPP	PET	Nylon	PVDC Coated Film
Non-Boil Snack Foods	Extrusion Lamination	Polyethyleneimine Type AC	A	A	A	A
		Polybutadiene Type AC	A	A	A	A
		Isocyanate Type AC	A	A	A	A
	Adhesive Lamination	Solvent-Free Adhesive	A	A	A	A
		Solvent-Based Adhesive	A	A	A	A

A: Applicable
*A: Applicable (5% addition of AQLP Hardener 1000 is needed)
N: Not Applicable

1. In case the ink is used for chilled or frozen food packaging (if there is a possibility that water may adhere to the surface on nylon), adhesive lamination is recommended. If the ink is applied at extrusion lamination, 5% addition of AQLP Hardener 1000 is needed.
2. In case the cold type solvent-less adhesive that can be applied at room temperature is used, there is a possibility that adhesive may dissolve the ink film or adhesive penetrate into ink film. Dissolution of ink or penetration of adhesive may often decline the laminate appearance. 3% of AQLP Hardener 1000 should be added into white ink to avoid this kind of trouble.
3. Boil and retort performance depend on grade of adhesive and its coating weight and so on. Please confirm ink performance at your application in advance.