

**Goodbye Waste.
Hello Convenience!**



Water Soluble PVOH Film



Plastic
Products

- Several grades adjusted for your application
- High quality produced in Japan
- User friendly due to exact dosage
- Sustainable in manufacturing, product and application

INNOVATION IN WATER SOLUBLE TECHNOLOGY

About

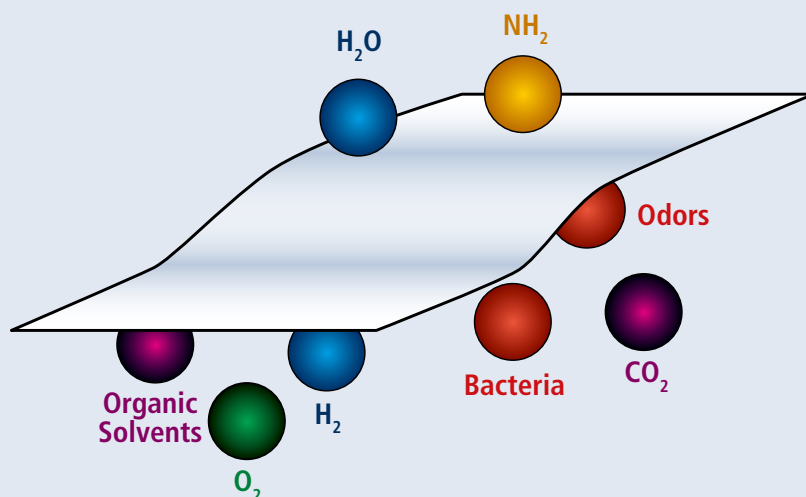
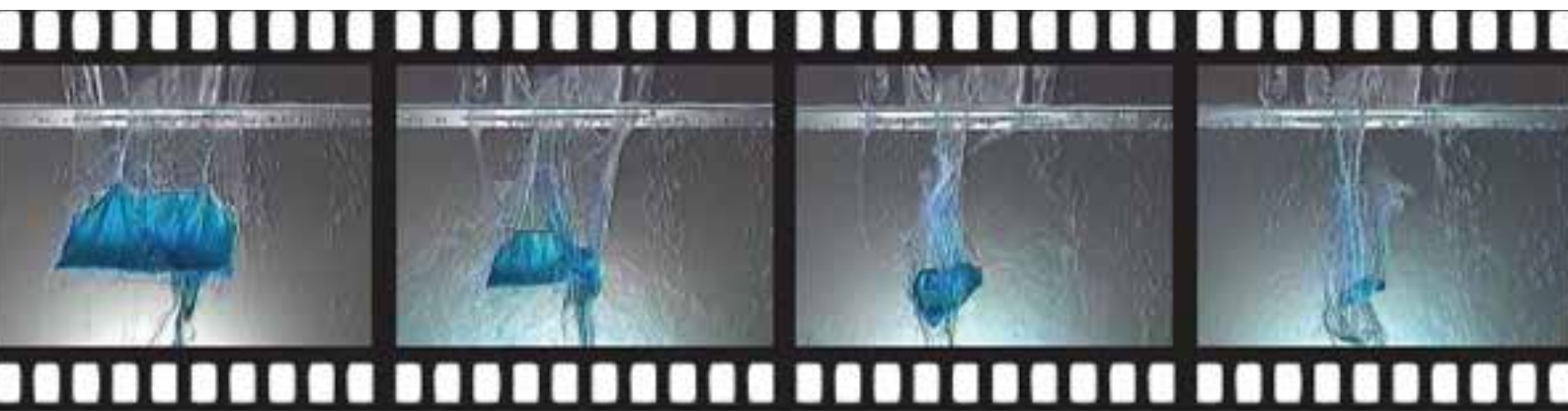
SOLUBLON® is a water-soluble film based on the synthesis of polyvinyl alcohol that is made available worldwide by the AICELLO CORPORATION.

This translucent film has many features, including being **water soluble, oil resistant, static electricity resistant and biodegradable for many years**, it has been used widely as single dose packaging material for agricultural chemicals, embroidery base films, decorative interior parts of automobiles, and medical and construction materials. In recent years, it has become particularly popular as single dose packaging for detergents (detergent capsules) in homes throughout the

world, especially those in Europe and the U.S. single dose capsules provide consumers with convenience, no direct touch of cleaning chemicals and correct dosing while making for a more sustainable future. **SOLUBLON®** has become truly useful in a variety of areas of people's lives.

We are able to provide our water-soluble films in **various shapes and sizes on reels and as flat bags**. All in one **SOLUBLON®** is a versatile product with advantages that can be used across many different industries.

More details are available upon request.



Benefits

Benefits of SOLUBLON®

Printability

SOLUBLON® is easily printed by various methods such as gravure printing, flexographic printing and screen printing.

Heat and Water Sealable

SOLUBLON® can be sealed with standard hot bar, impulse, water and sonic sealing methods.

Non-Toxic

Based upon analysis by certification/regulatory agencies, SOLUBLON® has been determined safe and non-toxic

Processability

SOLUBLON® offers several grades which are suitable for VFFS, thermoforming and flow wrapping machines.

Solvent Resistant

SOLUBLON® prevents many organic solvents and natural oils from migrating through the film.

Excellent Barrier

SOLUBLON® is an excellent barrier to odors, bacteria, carbon dioxide, hydrogen and oxygen. The film is readily permeated by moisture and ammonia.

Grades

SOLUBLON® Grades	Thickness (micron)	Soluble from	Appearance	Packaging method	Compatible with
GS-BTX*	75, 90	1°C	translucent, glossy	thermoforming machine, vertical form fill seal machine	liquid, powder
GA**	40, 50, 60, 75, 90	1°C	translucent, glossy	thermoforming ma- chine, Vertical form fill seal machine	liquid, powder
GH**	75, 90	1°C	translucent, glossy	thermoforming ma- chine, Vertical form fill seal machine	liquid, powder
KA	30, 40, 50	1°C	translucent	vertical form fill seal machine	powder
CT	25, 28	1°C	translucent	flow wrapper machine	powder, tabs
CS	30, 40, 50	1°C	translucent	vertical form fill seal machine	powder
EF	30, 50	70°C	translucent	vertical form fill seal machine	powder

* Only available with aversive agent due to CLP regulations

** Available with and without aversive agent

The above information is a general guideline. Therefore, in-house evaluations are strongly recommended prior to choosing a grade of SOLUBLON® for a specific application.

Applications

Liquid Laundry



ADW Detergent



Laundry Bag



Toilet Block



Surface Cleaner



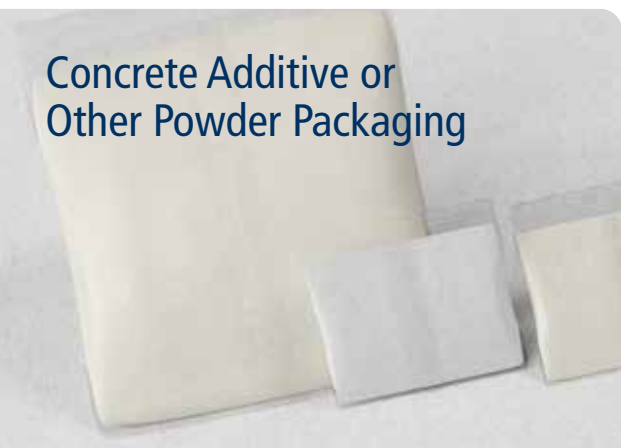
Super Absorbent



Agrochemical Packaging



Concrete Additive or
Other Powder Packaging



Ostomy Bag



Personal Care



Sustainability

SOLUBLON® Sustainable Products

SOLUBLON® approaches:

- ▶ Packaging grades pass OECD 301F for readily/inherent biodegradability
- ▶ Sustainable/renewable sourcing through Mass Balance ISCC PLUS certification
- ▶ Thin layer technology
- ▶ Certification for sustainable palm oil according to RSPO supply chain standard
- ▶ Ecolabel and nordic swan compliant
- ▶ CLP and REACH compliant
- ▶ No microplastic

SOLUBLON® Sustainable Applications

SOLUBLON® benefits:

- ▶ Water saving and less transportation volume due to compaction of detergents
- ▶ Supports refill systems
- ▶ No waste due to exact dosing of detergents

SOLUBLON® Sustainable Manufacturing

Zero emission factory due to reduction of

- ▶ CO₂ footprint by usage of renewable energies, less raw materials, less volume and space
- ▶ Water footprint by usage of intelligent wastewater management system
- ▶ Health issues in production due installing seismic isolation system and automation



Additional Services

Compatibility tests

AICELLO offers to conduct film screening tests under different conditions to assist in determining which grade(s) of **SOLUBLON®** are most suitable for specific applications. Details are available upon request.

General Clean Solutions Concept

With HARKE CleanSolutions, we are able to offer the complete range of services under one single roof. One partner. One responsibility. Details are available upon request

Contact:

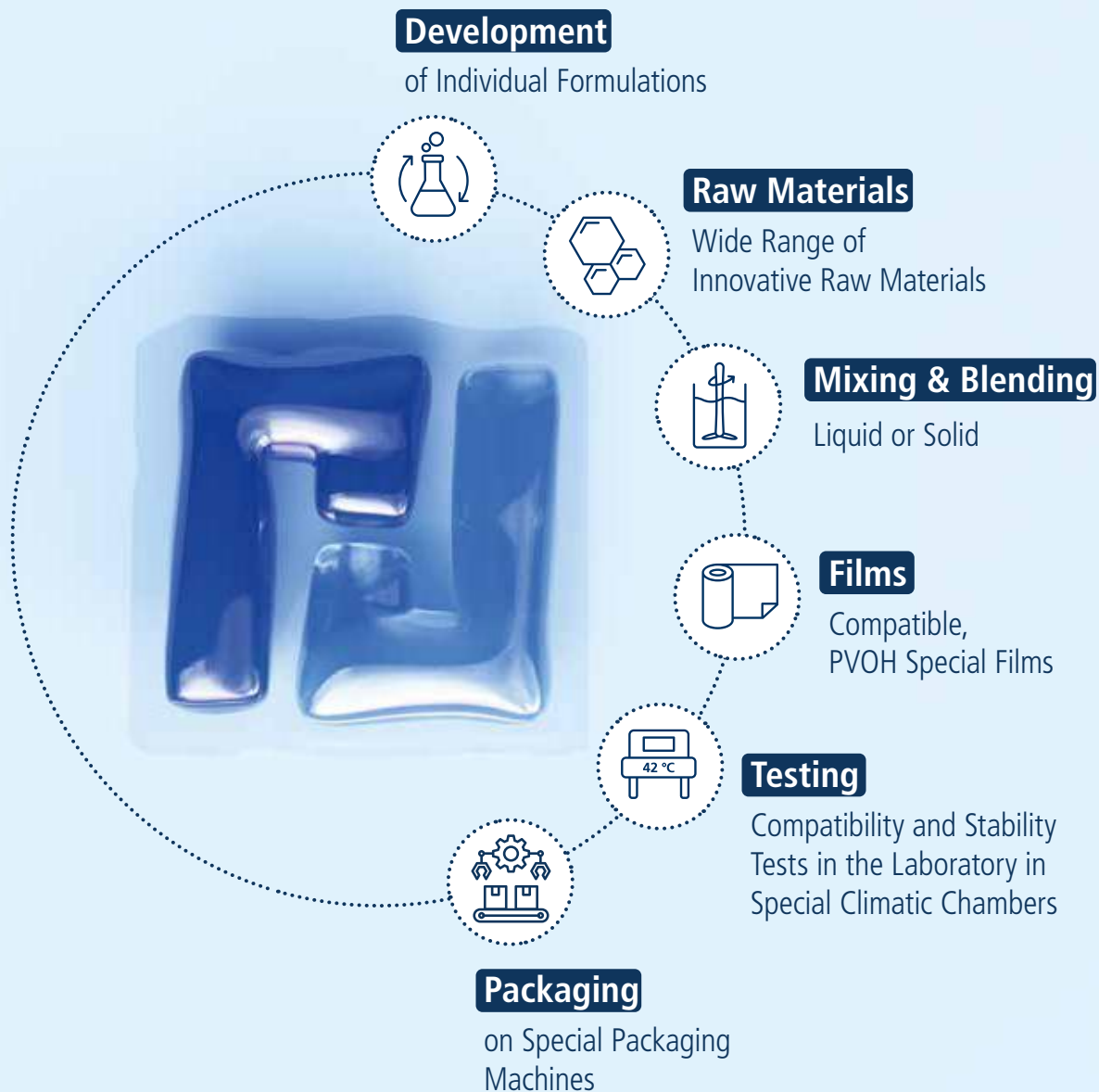
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Service of contract filling by the support of our sister company:

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