

Innovative Water-Soluble Film Solutions for a Greener Future.

Welcome to Watersol, where we blend innovation with sustainability to offer water-soluble film solutions and various speciality films.

REVOLUTIONISING PACKAGING WITH WATER SOLUBLE FILM.

Welcome to WATERSOL™ by Arrow Greentech Limited – Pioneering Sustainability through Innovation.

WATERSOL™ excels in delivering innovative, sustainable packaging solutions. We specialize in the production of water-soluble films. Our advanced water soluble PVA films cater to businesses seeking user safety & convenience, eco-friendliness and efficient alternatives. Driven by our innovation and sustainability philosophy and state-of-the-art R&D facilities, we continuously surprise the markets with new solutions. Some of the applications of our films are:



Packaging: It is extensively used for unit-dose packaging of detergents, agrochemicals, Construction fibers, Construction chemicals, and dyes.



Textiles: Used in embroidery as water soluble backing materials which dissolve completely in water.



Industrial: Industrial uses of PVA film include mold release applications, paper bag or sack liner applications, infection control laundry bags, and various other use cases.



Consumer Goods: Water-soluble film can be a great primary packing tool for making unit dose pouches, pods, capsules, and sachets for various consumer (FMCG) products. It is used to make pouches for laundry detergents, dishwashing products, toilet cleaner block, and other household cleaning products. It provides a convenient and hassle-free solution for packaging liquid and powder detergents.

Infinite Possibilities with Arrow's Water Soluble Films –

- Agrochemical Packaging.
- Construction Chemicals Packaging.
- Liquid Detergent Packaging.
- Cleaning Chemicals Packaging.
- Fish Bait Packaging.
- Water Treatment Chemical Packaging.
- Dyes & Pigment Packaging.
- Bio Enzymes Packaging.



Watersol Properties

Cold / Hot Water Soluble	Yes	Oil & organic solvent resistance	Yes
Printing & embossing	Yes	Anti-Static	Yes
Eco-Friendly	Yes	Good Elongation	Yes
Heavy Metal	No	Good Mechanical Property	Yes
Biodegradable	Yes	Alkaline Resistance	Yes
Transparent	Yes	Machinability	Yes
Major Certifications	Yes	Child Safety Norms	Yes



Product Features and Benefits



Product Overview:

Arrow's water-soluble films are designed for diverse applications, providing unmatched convenience and User Safety.

Key Features of the packaging film:

- Disintegrate as soon as it comes in contact with water.
- Optimum tensile strength to handle the weight from 10 gms to 10 kg.
- Suitable for Form-Fill-Sealing machines, pleat wrap, flow wrap automation, vacuum thermoforming and many others.
- Excellent Moisture/Heat Sealing for blocks and bars.
- Can be used with powder, fibres, liquid and granular product packaging.
- No residues after dissolution.
- Non-toxic for environment.
- It helps achieve an accurate dosing system.
- Biodegradable in nature and industrial environments.
- High puncture resistance.

Benefits:

Reduce Plastic Waste:

Our films dissolve entirely, reducing the environmental impact.

Biodegradable:

PVA films breaks down in to the water & carbon dioxide when exposed to the microorganism in the environment. This process leaves no harmful residue.

Brand Differentiation:

Enhanced brand reputation through environmentally conscious packaging.

Key Offerings in Our Product Line

Watersol PVA Films – Where Innovation Meets Safety and Convenience

Packaging Film:

Watersol™ Film redefines the packaging landscape with its Innovative, fully biodegradable composition. Tailored for diverse industries such as agrochemicals, dyes, and food additives, this innovative film ensures precise dosing and safe handling of potentially hazardous materials, offering a sustainable and efficient packaging solution.



Our Packaging Film offers:

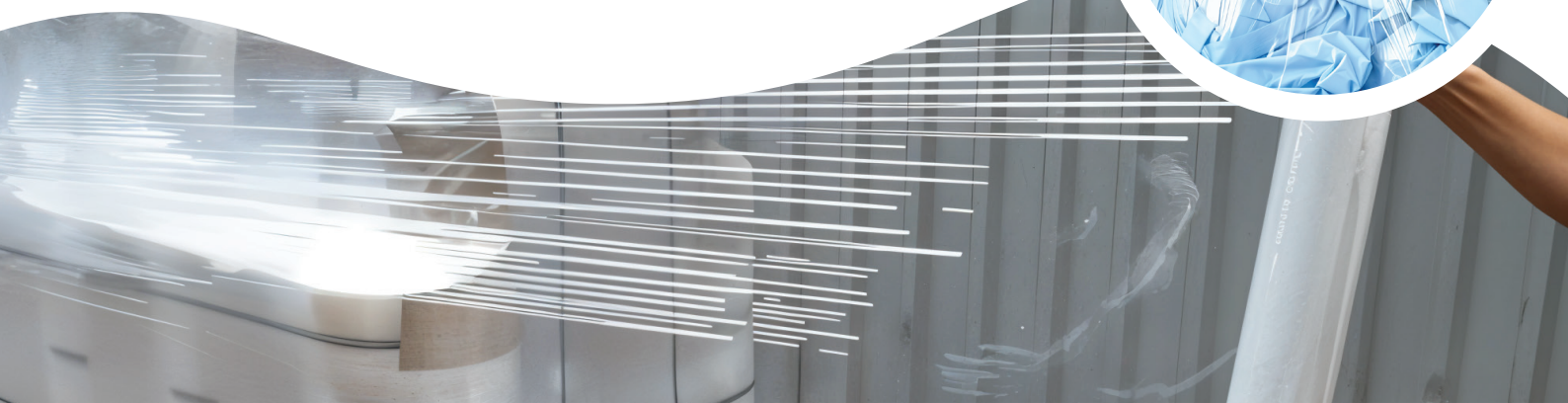
- Biodegradable eco-friendly film .
- Dissolvable in Water.
- Customisable: embossing, printable, coloured film.
- Excellent Barrier Properties.

Water-Soluble Laundry Bags:

Crafted from polyvinyl alcohol (PVA), Watersol™ Laundry Bags dissolve in hot and cold water, providing a safe, hygienic solution for isolating and transporting contaminated linens in healthcare and other settings. These bags reduce manual handling, lower cross-contamination risks, and ensure safe, eco-friendly disposal.

Features include:

- Infection control.
- Enhanced worker safety.
- Eco-friendly.
- Airborne bacteria sealing.
- Antistatic, non-toxic, and biodegradable properties.





Pods / Capsule-Making Film:

Watersol™ PVA films simplify household cleaning with their complete solubility in hot and cold water, leaving no residue. Designed to encapsulate single doses of detergent or cleaning agents, these films ensure.

- Accurate measurements.
- Sustainable & eco-friendly.
- Enhance convenience for consumers, making them a perfect solution for modern households.

Water-Soluble Seed Tape Film:

Watersol™ Seed Tape revolutionises farming by ensuring precise seed placement with hydrophilic film. This innovation eliminates seed wastage and optimizes soil usage, promoting uniform growth and faster germination. Dissolving upon watering, it provides.

- Minimum effort and reduces seed loss.
- Optimal Plant Spacing.
- Boosting agricultural efficiency and conserving soil moisture, especially in drought conditions.

Water-Soluble Embroidery Film:

Watersol™ Embroidery Film streamlines needlework with its controlled tensile strength and paper-like properties.. Easily dissolvable with water & explicitly designed for the embroidery industry.

- Stabilises fabrics.
- Reduces stitch counts.
- Enhances embroidery quality.
- Ensures superior results with minimal cleanup and greater cost efficiency.

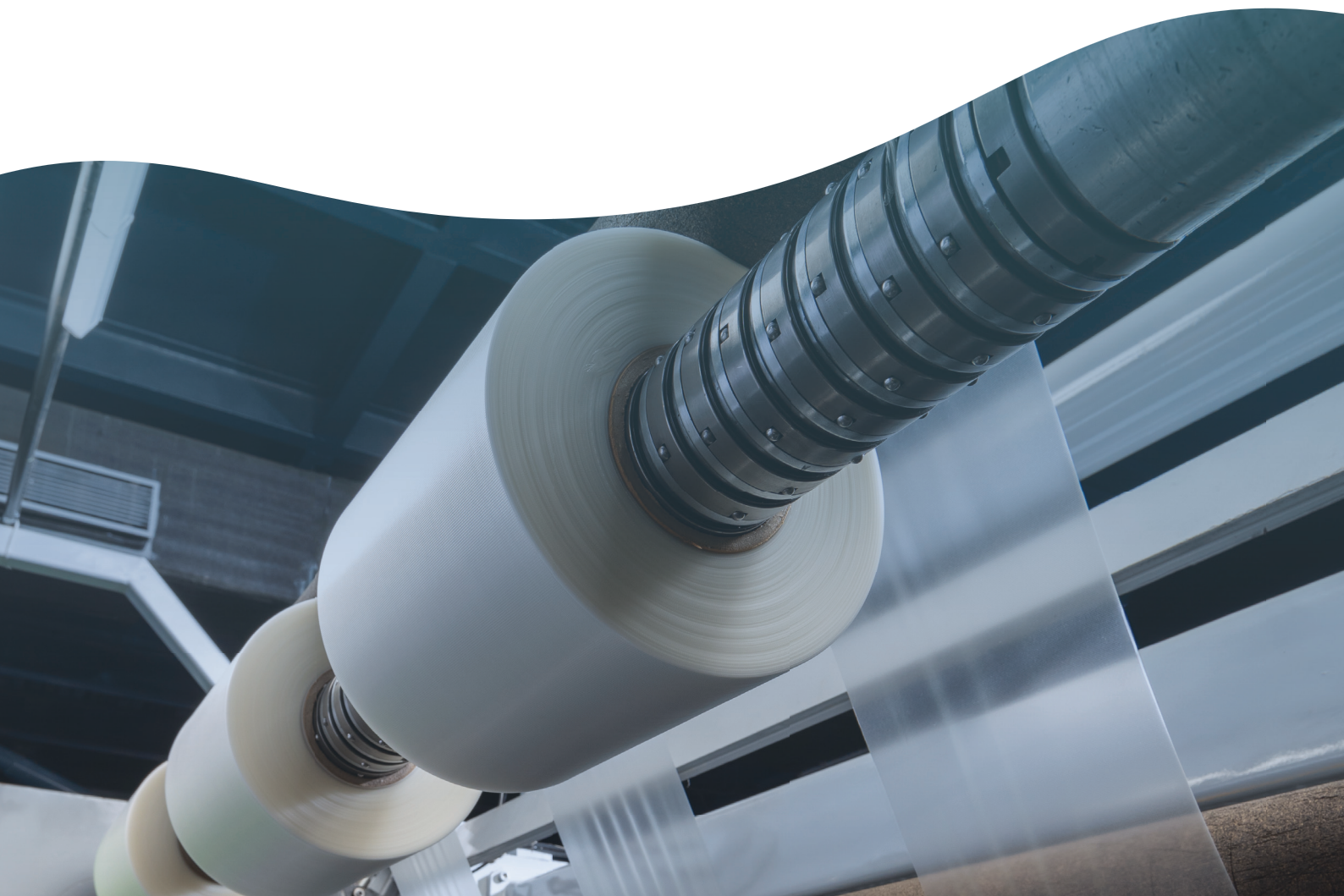
Mold Release Film:

Watersol™ Mold Release Film effortlessly separates from hydrophobic plastics and low-polarity organic materials, making it ideal for resins and thermosetting applications. It's solvent resistance and water solubility simplify demolding processes while maintaining eco-friendliness and efficiency in manufacturing.

- Smooth Finishes.
- Precision Release.
- Sustainable & eco-friendly.

Water Transfer Printing Film:

Transform objects with Watersol™ Water Transfer Printing Film. This cutting-edge technology decorates plastics, metals, ceramics, and wood with intricate patterns. By transferring designs through water activation, it provides unmatched versatility for industries such as automotive, electronics, and home décor, offering an eco-friendly alternative to traditional methods.





Arrow Greentech Ltd., established in 1992, specialize in innovative and sustainable packaging solutions. With advanced manufacturing facilities in Ankaleshwar and Ahmedabad, Gujarat, and over 30 granted patents, we are leaders in developing eco-friendly packaging technologies.



Visit Us  



Join us in our journey towards a greener future. Visit our website to explore our range of products and their benefits.

Website: www.watersolublefilm.com

Email: info@arrowgreentech.com/watersol@arrowgreentech.com

Address : Arrow Greentech Ltd. – Arrow House, Amba Villa 3, Yari Road
Extension Village, Sundarwadi, Versova, Mumbai – 400 061