



Warm Water Soluble Domestic Laundry Bag

Suitable for domestic washing machine cycles - fully soluble, does not clog filters or leave residue on clothing

Key Benefits

- Warm water soluble
 - Bags fully dissolve safely at $\geq 40^{\circ}\text{C}/104^{\circ}\text{F}$ however a wash cycle of $60^{\circ}\text{C}/140^{\circ}\text{F}$ is recommended to kill pathogens.
 - Physical handling of laundry reduced as closed bags can be put directly into washing machines.
 - Bags can take damp or wet garments/laundry.
 - Does not clog filters or leave residue on clothing
- Reduces risk of infection transmission
 - Hydropol material is a hydrophilic polymer. This gives an effective barrier against pathogens, reducing the time any infection pathogens will dwell on the material and lowering the risk of transmission compared to hydrophobic polymers e.g. polythene.
- Strength
 - No need to double bag due to strength, puncture resistance and durability.
- Clarity
 - Ability to see contents clearly
 - Excellent transparency with over 90% transmission rate when tested to ASTM D1003 verified to ISO 14782
- Easy to open, straight from the box.
- Conforms to the NHS Executive Guidelines
 - HSG (95) 18 - Hospital Laundry Arrangements for Used and Infected Linen
- Ideal for single-use applications without negative environmental impact
 - Replacing polyethylene bags with Hydropol bags saves potentially contaminated polyethylene from landfill/incineration.

Bag Specifications

The dimensions below are based on a standard Hydropol™ laundry bag made using a bottom weld but can be used as the base specification for any customer sized laundry bag. Side weld bags can also be made to the same dimensions.

Final bag specification to be agreed between customer and manufacturer.

Standard sizes

W 660mm (26") x L 840mm (33") x 25 μ (Large)
W 560mm (22") x L 710mm (28") x 25 μ (Medium)
W 350mm (14") x L 500mm (20") x 25 μ (Small)

Material specification

Hydropol™ 33100 series – fully soluble at $\geq 40^{\circ}\text{C}/104^{\circ}\text{F}$ however a full wash cycle of $60^{\circ}\text{C}/140^{\circ}\text{F}$ is recommended to kill pathogens.

User instructions to be included on the bag

Domestic Use: Warm Water-Soluble Laundry Bag

Hydropol™ bags will become more pliable and gain toughness as they are exposed to the atmosphere. Handle the bags gently as you unpack them and allow them a short time to acclimatise before use.

- Avoid touching the soluble bags with wet hands
- Place clothing in bag; do not overfill the bag
- When supplied, close the bag with the water-soluble tie attached. Never make a knot with the bag
- Keep filled bags dry during storage and transport
- Place the bags, still closed, into a washing machine
- Wash on a full cycle at $\geq 40^{\circ}\text{C}/104^{\circ}\text{F}$, preferably with detergent. A wash cycle of $60^{\circ}\text{C}/140^{\circ}\text{F}$ is recommended to kill pathogens.
- Do not fill the washing machine to more than the advised capacity and always maintain the correct water level.

Ordering Requirements

Order must state:

- Bag size.
- Packing requirements i.e. number of bags per pack and whether in a roll or flat/ folding requirement etc
- Print requirement (if any; if no print needed state unprinted); can be bespoke, printing plate charges may be incurred.
- Colour of print e.g. red Pantone 199 for laundry bags or purple Pantone reference 527 for cytotoxic use.
- Bag tie form (option perforated tear-off tie or no tie). Figure #1, Figure #2 and Figure #3 show positions for perforations when this option is chosen.
- Bag format- bottom or side weld.

Print Requirements

(Where print is specified)

See Figures #1, #2 & #3 below for suggested artwork

Considerations for bespoke print

- Ink type- water-based or solvent based
- Ink density/opacity of print
- Percentage ink coverage (suggest <10%).

Bag Quality Requirements

	Standard	UOM	Notes
Clarity – light transmittance	>90%	%	ASTM D 1003
Width	Tolerance +/- 5%	mm/in	
Gauge	Average Tolerance +/- 10% Spot Tolerance +/- 20%	µm	
Bag Length	Tolerance +/- 5%	mm/in	Measurement from top of bag to base seal (not including skirt)
Quality Standards	To be agreed between customer and manufacturer		
Solubility	APL SOP test 4 film solubility test	Pass	Must dissolve fully leaving no residue to clog filters etc
Ease of Opening	APL SOP 17	Pass	Easy opening
Bottom seal	Bottom must be completely sealed	APL SOP 18	
Tie strip (if required)	Tie must be easily removed manually without damaging either tie or bag.	Visual	Perforated tear-off tie recommended

Packaging Requirements

- Not suitable for vacuum packing
- New, undamaged carton
- Carton to be lined with a standard PE outer and taped/tied with air-tight sealing, PE outer can be recycled
- Label to identify size (Large, Medium, Small), thickness (μm) and material (Hydropol 33100 series) plus instructions by customer.

Supplementary Information attached

Example artwork:

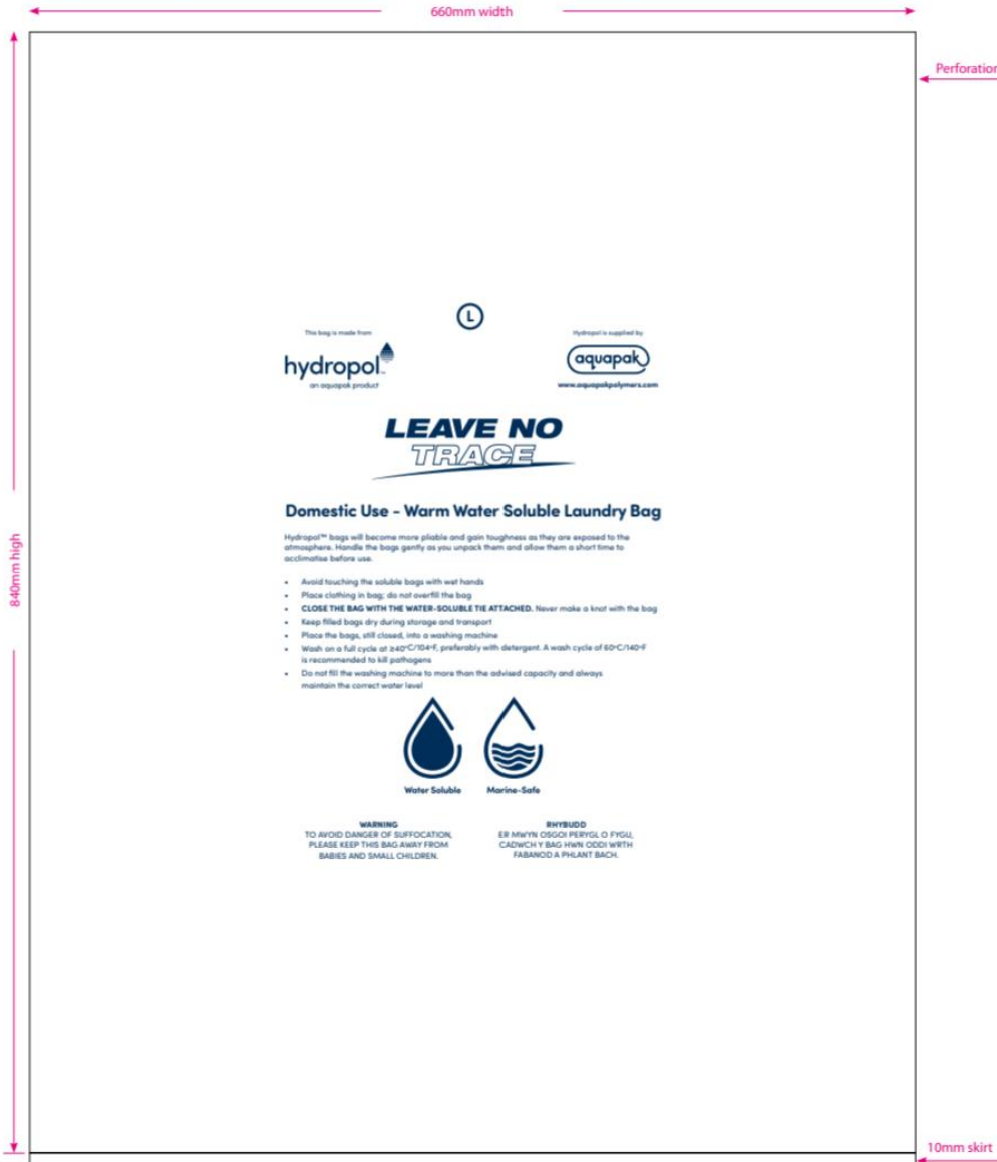
- Figure #1 Example artwork – large bag
- Figure #2 Example artwork – medium bag
- Figure #3 Example artwork – small bag.

Figure #1

Example artwork – large bottom seal bag

Large Hydropol Bag

660mm (w) x 840mm (h)



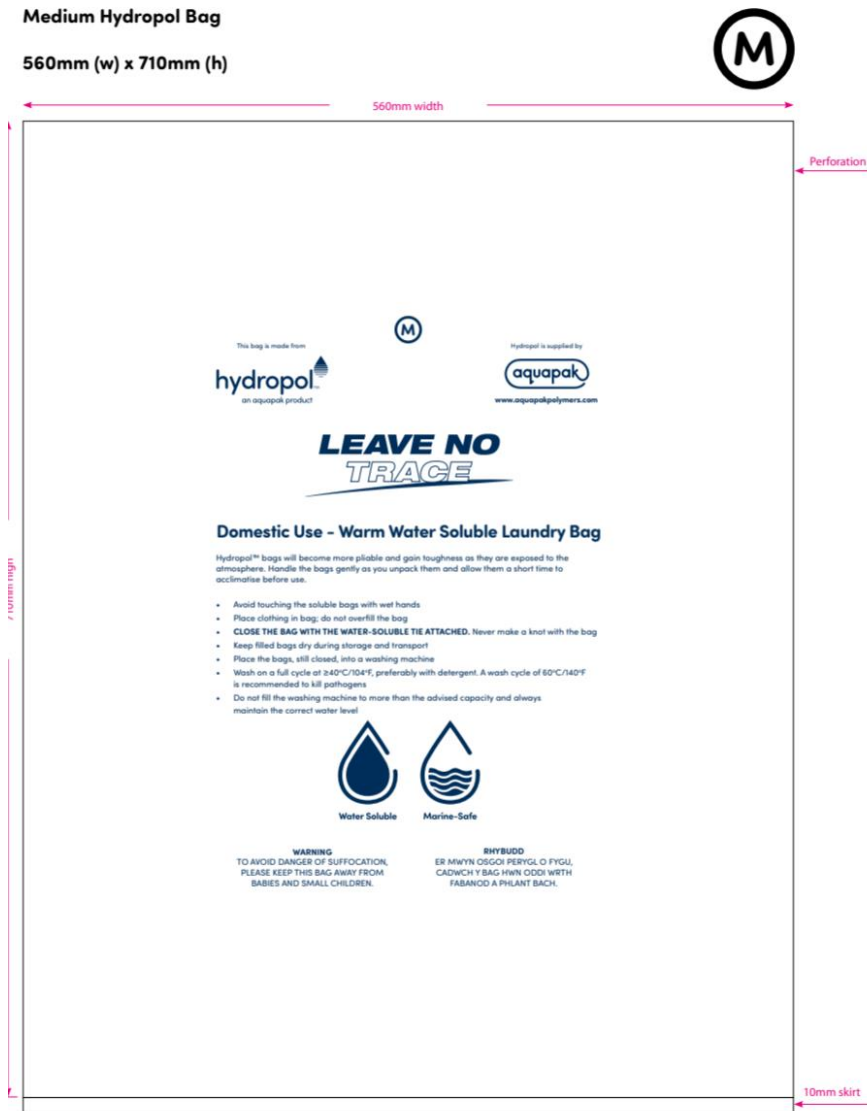
COLOUR PRINT GUIDE

- HYDROPOL: PANTONE 295
- CYTOTOXIC: PANTONE 527
- HOT WATER SOLUBLE: PANTONE 199



Figure #2

Example artwork – medium bottom seal bag



COLOUR PRINT GUIDE

■ HYDROPOL: PANTONE 295 ■ CYTOTOXIC: PANTONE 527 ■ HOT WATER SOLUBLE: PANTONE 199

Figure #3

Example artwork – small bottom seal bag



COLOUR PRINT GUIDE

■ HYDROPOL: PANTONE 295 ■ CYTOTOXIC: PANTONE 527 ■ HOT WATER SOLUBLE: PANTONE 199