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Aprons

Made from sustainable Hydropol™ using Aquapak's patent-protected technology

Key benefits

- Designed for single-use applications without negative environmental impact
 - Replacing polyethylene aprons with Hydropol aprons saves potentially contaminated polyethylene from landfill/incineration.
 - Hot water soluble - bags fully dissolve safely at $\geq 70^{\circ}\text{C}/158^{\circ}\text{F}$
- Lowers risk of infection transmission as pathogen dwell time reduced
 - 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.
- Clear/transparent with over 90% transmission rate when tested to ASTM D1003 verified to ISO 14782.
- Excellent anti-static properties
 - Atex compliant - Hydropol hot water-soluble film has been shown to be inherently anti-static.
- Static dissipation properties as measured against IEC 61340-5, with a surface resistivity typically around 4×10^{10} ohms per square.
- Excellent tensile strength, puncture-resistant and durable. 2.5x HDPE tensile strength.
- Disposal options
 - Hot water soluble - disposal options include hot wash cycles on dishwashers, washing machines
 - Biodegradable, non-toxic and marine-safe.
- Reduces machine cleaning and maintenance as aprons completely dissolve with no residue leftover to remove from the machine.



“Hydropol™ is a hydrophilic material unlike many other materials used in, for example, aprons which are hydrophobic. There is an increasing link between pathogen dwell time on hydrophobic plastics in comparison to hydrophilic, where hydrophilic materials like Hydropol™ show a distinct advantage.

Dr John Williams, Technical & Business Development Director, Aquapak Polymers

How to Order

Email: info@aquapakpolymers.com

Call: **Europe** +44 121 516 5656 **Asia** +65 975 53 203 **USA** +1 413 246 4452

A real solution to the world's plastic pollution crisis



Global
Commitment

Registered Office Address: Hollymoor Point,
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Registered Company No:
05343342



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Key Technical Facts

Aquapak Hydropol™ Aprons

Material: Hydropol™ 30120 series

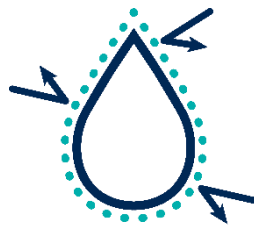
- PVOH base resin well established as safe and non-toxic, marine-safe.
- Hydrophilic (water-loving) so does not attract toxins and does not form harmful microplastics.
- High bi-axial strength and puncture resistance (x2.5 strength HDPE by weight).
- Oxygen barrier (equivalent to EVOH), solvent, petrochemical, grease and oil barrier.
- UV resistance.
- Clear film with excellent anti-static properties, with a surface resistivity typically around 4×10^{10} ohms per square when measured against IEC 61340-5.
- Excellent transparency with over 90% transmission rate when tested to ASTM D1003 verified to ISO 14782.
- Can be printed on directly, excluding the need for 'corona' treatment, and good for heat sealing.



Marine-Safe



Anaerobic Digestion



Excellent barrier properties



Transparent



UV resistant

End-of-life

- Designed to be soluble in hot water. Hydropol™ aprons dissolve completely and safely in $>70^{\circ}\text{C}/158^{\circ}\text{F}$ wash.
- The dissolved polymer is non-toxic and passes through to the waste water treatment plant where it then harmlessly degrades into CO_2 , water and mineralised biomass.



Technical data

For Technical Data Sheets, Material Safety Data Sheets and White papers, please visit <https://www.aquapakpolymers.com/technical/>

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