



# Revolutionary water-soluble polymer technology

*Water-soluble PVOH, supporting sustainability in the polymer industry.*

**PVOH (Polyvinyl Alcohol)** has been around for many years but, in relatively recent times, new formulations have been developed which can be both extruded into polymer film and processed by injection moulding methods.

PVOH, to touch and feel, can be as flexible as Low Density Polyethylene (LDPE) or as rigid as Polypropylene (PP). Crucially, all formulations completely dissolve in water.

**Current applications** include: disposables, packaging and medical products, with the following available attributes:

- Cold water dissolve
- Clean chemistry
- Rapid/slow dissolve
- Hot water dissolve

Distrupol brings one of the **largest ranges of 'Green' thermoplastic polymer** solutions to the market, covering:

- Recycled
- Compostable
- Bio-sourced
- Water dissolvable

## *Did you know...?*

- *PVOH has excellent barrier properties to oxygen: perfect for packaging applications.*
- *Grades have been developed with a melt flow rate as low as 1g/10 min and as high as 100g/10 min.*
- *Scents and nutrients can be fully compounded into PVOH.*
- *On initial contact with water, PVOH actually provides a lubricous surface: great for low-wear applications.*



**Pharmacopoeia Compliance**

PVOH has been used to replace gelatine in pharmaceutical drug capsules, thus removing the need for animal-based derivatives and by-products. PVOH is non-toxic and will fully dissolve in the digestive system.

In this application, specialist PVOH grades were developed to flow down extremely thin wall sections.

The grades were also tested by the client to confirm they meet European Pharmacopoeia compliance.



**Environmental Commitments**

PVOH has also been used in standard applications, including, but not limited to, food and industrial applications.

- Injection moulded caps
- Film packaging
- Blow moulded bottles
- Seed encapsulation

PVOH is a great way to fulfil your company's ethical and sustainability commitments.



**From the Standard to the Unusual**

PVOH is used in fishing bait deployment capsules. An injection moulded PVOH capsule that contains the bait is cast to your required location and then dissolves and releases the bait gradually.

The PVOH in this application also contains special fish-attracting scents to lure the fish to the bait — all of which is fully compounded into the PVOH.

© 2021 Distrupol Limited ("Distrupol"). All rights reserved. Distrupol, its service mark, and other identified trademarks are the property of Distrupol or affiliated companies. All other trademarks not owned by Distrupol, or affiliated companies, that appear in this material are the property of their respective owners. The information contained herein can be changed without notice and you should contact the manufacturer to confirm. Read and follow the relevant product label and safety data sheet (SDS) for your health. All information is based on data obtained from the manufacturer or other recognised technical sources. Distrupol provides this information "as is" and makes no representation or warranty, express, or implied, concerning the accuracy or sufficiency of the information and disclaims all implied warranties. Distrupol is not liable for any damages resulting from the use or non-use of the information and each Distrupol affiliate is responsible for its own actions. All transactions involving this product(s) are subject to Distrupol's standard Terms and Conditions, available at [distrupol.com](http://distrupol.com) or upon request. 13034-Q12021

**Further Information**

Please contact your local Distrupol representative or email: [info@distrupol.com](mailto:info@distrupol.com)

**Design, Develop & Deliver**

*Distrupol, your polymer solutions partner.*

Our highly experienced sales and technical team will support you with mould design, polymer selection, testing and process optimisation.