

## ELVANOL™ as binder/water soluble film former



### BINDERS

The unique properties of ELVANOL™ polyvinyl alcohol make it a useful binder in many applications, like:

- Textile sizing
- Paper and paperboard sizing
- Pigmented coatings
- Cosmetic preparations
- Nonwoven binders
- Photosensitive coatings
- Ceramic binders
- Temporary binders in clay, gypsum, and cement
- Release coatings
- Leather treatment
- Chemical intermediate
- Moulded articles as gaskets, washers, diaphragms and tubing

### WATER SOLUBLE FILMS

Films cast from waterborne solutions of ELVANOL™ polyvinyl alcohol and plasticizer show particular characteristics: transparency, toughness, as well as tear and puncture resistance. Such films are used for hospital laundry bags that can be placed directly into the washing machine without the need for handling the contents.

Other ELVANOL™ film applications include:

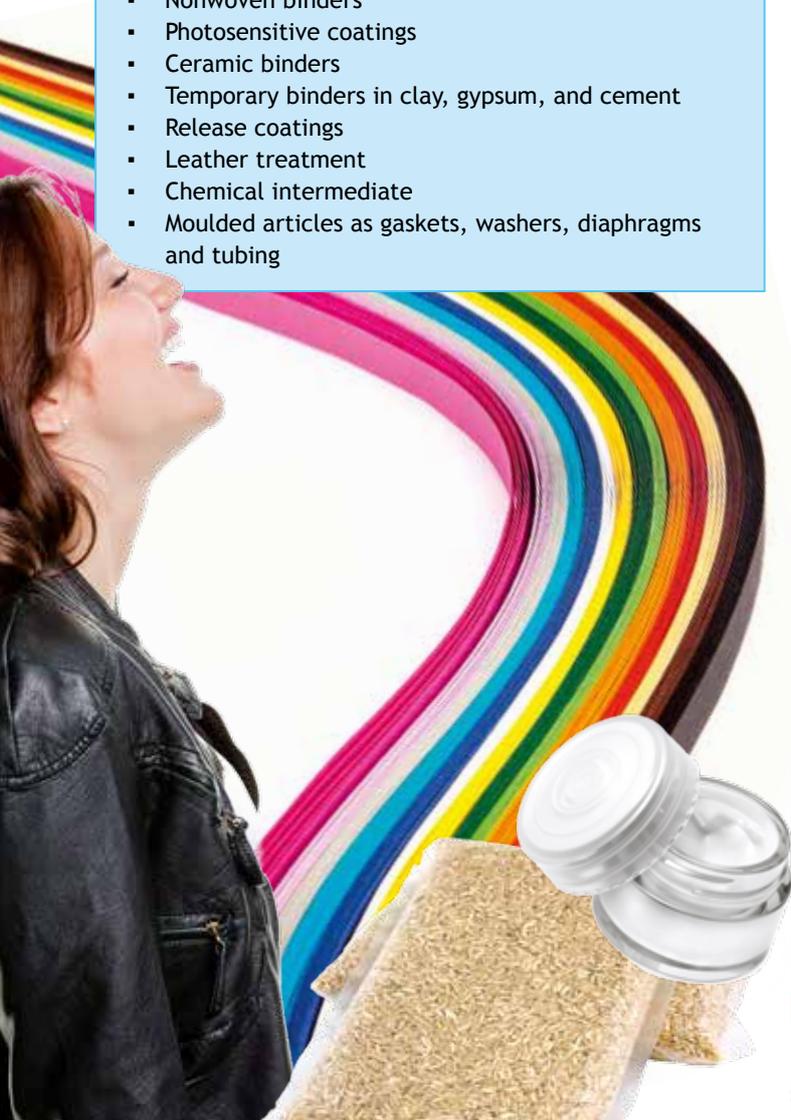
- water-soluble packaging,
- release films,
- vacuum bagging,
- transfer printing,
- water-soluble labels.

ELVANOL™ water soluble film can be used for packaging pre-weighed quantities of materials, such as dyes, detergents, bluing, powdered bleaches, and fungicides. This allows their addition to aqueous systems without breaking the package or removing the contents, thereby saving time, limiting exposure to the contents and reducing material losses.

Other suggested applications in the packaging field include:

- container liners for oils, greases and paints.
- wrappers for protecting polished metals from gases such as oxygen and hydrogen sulphide.

ELVANOL™ 71-30 is recommended for use in film manufacture where maximum strength and both, solvent resistance and resistance to cold water are desired. For cold-water soluble film, ELVANOL™ 52-22 or 51-05 may be used. ELVANOL™ grades 85-82 and 75-15 offer water solubility at intermediate temperature.



## Adding value to your products - worldwide



KURARAY POVAL™, EXCEVAL™, ELVANOL™ and MOWIFLEX™ are the trademarks for polyvinyl alcohols made by Kuraray. Their key characteristics – outstanding film-forming properties and high binding strength – add real value to your products. Our polymers are water-soluble, highly reactive, crosslinkable and foamable. They have high pigment binding capacity, protective colloid characteristics and thickening effects. The physical and chemical properties of KURARAY POVAL™ make it ideal for a wide variety of applications, ranging from adhesives through paper and ceramics to packaging

films. Many of our polymers are food contact-approved and thus suitable for food applications. Ecologically KURARAY POVAL™ is advantageous due to its biodegradability and the fact that combustion does not generate residues. It is available in various particle sizes from granules to fine powders.

Kuraray produces its wide range of KURARAY POVAL™ grades in Japan, Singapore, Germany and the USA. Kuraray's global production and service network make us your partner of choice for innovative high-quality PVOH resins.

**KURARAY - Here to Innovate.**

### Kuraray America, Inc.

2625 Bay Area Blvd.,  
Suite 600 Houston, TX77058  
United States of America  
Phone: +1 800 423 9762  
[info.kuraray-poval@kuraray.com](mailto:info.kuraray-poval@kuraray.com)

### Kuraray Europe GmbH

Philipp-Reis-Str. 4  
65795 Hattersheim am Main,  
Germany  
Phone: +49 69 305 85 351  
[info.eu-poval@kuraray.com](mailto:info.eu-poval@kuraray.com)

### Kuraray Asia Pacific Pte., Ltd.

331 North Bridge Road  
#18-02 Odeon Towers,  
Singapore 188720  
Phone: +65 6337 4123  
[infofoval.sg@kuraray.com](mailto:infofoval.sg@kuraray.com)

### Kuraray China Co., Ltd.

Unit 2207, 2 Grand Gateway  
3 Hongqiao Road, Xuhui Dis-  
trict, Shanghai 200030, China  
Phone: +86 21 6119 8111  
[infofoval.cn@kuraray.com](mailto:infofoval.cn@kuraray.com)

## Head Office:

### Kuraray Co., Ltd.

Ote Center Bldg.  
1-1-13, Otemachi Chiyoda-ku  
Tokyo 100-8115, Japan  
Phone: +81 3 67 01 1000  
[infofoval.jp@kuraray.com](mailto:infofoval.jp@kuraray.com)