



DuPont Packaging & Industrial Polymers

Product Information


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Elvanol® as a Binder/Film Former

Films

Films cast from water solutions of Elvanol® polyvinyl alcohol and plasticizer are transparent, tough, tear-resistant, and puncture-resistant.* Such films are used for hospital laundry bags that are added directly to the washing machine without the need for handling the contents. Other PVOH film applications include water-soluble packaging, release films, vacuum bagging, transfer printing and water-soluble labels.

Binders

The unique properties of Elvanol® polyvinyl alcohol make it useful in many applications; some of these are:

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

Use of water-soluble polyvinyl alcohol film for packaging preweighed quantities of materials such as dyes, detergents, bluing, powdered bleaches, and fungicides permits their addition to aqueous systems without breaking the package or removing the contents, thereby saving time and reducing material losses. Other suggested applications in the packaging field include container liners for oils, greases, paints, and wrappers for protecting polished metals from gases such as oxygen and hydrogen sulfide.

Elvanol® 71-30 is suggested for use in film manufacture where maximum strength, 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.

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