Kuraray’s water-soluble ethylene vinyl alcohol

Exceval™ is a new addition to Kuraray’s polyvinyl alcohol product portfolio. Its unique particle morphology, coming from a special production process enables an improved film-forming behavior under alkaline conditions, reduced energy consumption, and improved gloss. The water resistance of Exceval™ absorb significantly less humidity. Therefore it is able to protect the imaging layer from being damaged.

Kuraray – Here to Innovate.

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. Kuraray’s Poval™ grades are highly transparent and glossy, have a strong chemical resistance and provide good adhesion to metallizing coatings. They are highly transparent and glossy, have a strong chemical resistance and provide good adhesion to metallizing coatings. They are produced with a special production process and are suitable for high-quality PVA resins. 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 PVA resins.

Kuraray — More to Exceval™.

Exceval™ provides coatings with excellent gas barrier properties, as well as excellent printability. In aqueous gas barrier coating applications, coatings made of Exceval™ absorb significantly less humidity. Therefore it is able to protect the imaging layer from being damaged. Exceval™ is an FDA certified product and can be used in paper coating formulations to produce high-quality paper products.
A champion in versatility

The applications of polyvinyl alcohol are extremely wide-ranging. The main uses are in the paper industry, construction and as a component of adhesives, packaging and electronics. The physical and chemical properties make polyvinyl alcohol very versatile. Kuraray Poval™ and Elvanol™ are water soluble, have excellent film forming characteristics and high tensile strength.

In addition, the polymers are highly elastic and resistant to organic solvents. They also have dispersing power/surface activity to make emulsions and suspensions. The hydroxyl groups with substances such as aldehydes and other reactive compounds expand the range even wider.

In the paper industry polyvinyl alcohol plays an important role as a carrier for optical brighteners. In the manufacture of bank notes it guarantees extremely hard-wearing properties. In the same use as a creping adhesive contributes to high productivity of these paper. Polyvinyl alcohol is also well known as a binder of fine particle inorganic fillers like fumed silica in ink jet papers for high quality photo printing.

In adhesives, polyvinyl acetate and vinyl acetate – ethylene emulsions realize sufficient adhesive strength on woods and papers thanks to the stabilization by polyvinyl alcohol. Some non-curable adhesive compositions are known as well. For postage stamps, partial saponification grades ensure that the adhesive strength is not impaired even in fluctuating air humidity. In the production of high quality photo papers, partially hydrolyzed acts as a setting agent. Partially saponified acts as a temporary binder in green strength additives.

The solvent resistance ensures the functionality of protective coatings. In the textile industry polyvinyl alcohol is used as a well-known component in composite soaps, for example. Polyvinyl alcohol significantly reduces fluid loss which prevents defects in oil wells.