The applications of polyvinyl alcohols are wide-ranging: their main uses are in the paper, textile, emulsion, PVC, construction, adhesives, packaging, and oil industries. As family glue, they resist bacterial attack with a neutral salt. They keep food and other products fresh. In the paper industry, they play an important role as carriers for optical brighteners, in barrier coatings against mineral oils/fat, and in paper for ink jet printing.

As a component used in the cementation of oil wells, KURARAY POVAL™ reduces the setting time of mortar. It is also used as a temporary binder to facilitate the production of high-strength industrial ceramics. Its solvent resistance ensures the functionality of protective clothing.

KURARAY POVAL™’s unique colloidal properties assist in the production of suspensions for PVC polymerisation and the manufacturing of VAE emulsions. A high polyvinyl alcohol content in the production of sponges makes them resistant to chemicals and enhances their mechanical stability. The physical and chemical properties of polyvinyl alcohols make them suitable for a wide range of applications.

KURARAY POVAL™ is water-soluble, has specific chemical characteristics, excellent barrier properties, and high tensile strength. In addition, it is also rigid and resistant to heat and organic solvents.

Above all, the range of applications is based on its chemical properties, especially on the ability of its numerous hydroxyl groups to react with substances such as reactant resins, aldehydes and other reactive compounds.

KURARAY POVAL™, EXCEVAL™, ELVANOL™ and MOWIFLEX™ are the trademarks for polyvinyl alcohols made by Kuraray. Their key characteristics – outstanding film-forming properties and high bonding strength – add real value to your products. Our polymers are water-soluble, highly reactive, crosslinkable and foamable. They have high pigment binding capacity, propagate without char formation and exhibit excellent flexibility. The technology of KURARAY POVAL™ makes it ideal for a wide variety of applications, ranging from adhesives through paper and ceramics to packaging.

KURARAY — Here to Innovate.
EXCEVAL™ - Kuraray’s water-soluble ethylene vinyl alcohol

EXCEVAL™ is the trademark of Kuraray’s water-soluble ethylene vinyl alcohol. Although EXCEVAL™ is water-soluble similar to fully hydrolyzed KURARAY POVAL™ grades it absorbs less moisture at ambient temperatures in comparison. Hence EXCEVAL™ is the polyvinyl alcohol of choice for water resistant emulsions, for D3 and D4 adhesives. Furthermore, EXCEVAL™ produces coatings with excellent gas barriers, e.g. towards oxygen, nitrogen and carbon dioxide, even in humid environments.

MOWIFLEX™ - Thermoplastic processable polyvinyl alcohol

MOWIFLEX™ is Kuraray’s polyvinyl alcohol-based polymer compound for thermoplastic processing. This non-toxic resin is water-soluble and forms clear, glossy films. It has high tensile strength and can be processed using conventional thermoplastic technologies (blown film extrusion, injection molding, 3D printing, etc.).

Moreover, MOWIFLEX™ can be colored, allowing processing as a highly concentrated masterbatch.

Kuraray is bundling its global polyvinyl alcohol (PVOH) products under the name KURARAY POVAL™. KURARAY POVAL™ meets all requirements from low to high viscosity, partially to fully hydrolyzed, and from waxy to fine powder grades. More than 120 products for a wide variety of applications are supplemented by two specialty ranges: EXCEVAL™ and MOWIFLEX™. With more than 70 years of experience and extensive production and applications expertise, we can tailor the properties of our polymers precisely to our customers’ specifications. “Here to innovate” is therefore both our slogan and our promise to you. Kuraray’s PVOH adds value to your products and brings clear benefits:

- Extensive range of standard products and specialties
- A complete technical service
- Global network of production facilities, service laboratories and logistics centers
- Consistently high product quality
- Reliable products
- Investment in the development of new products and applications

With more than 70 years of experience and extensive production and applications expertise, we can tailor the properties of our polymers precisely to our customers’ specifications. "Here to innovate" is therefore both our slogan and our promise to you. Kuraray’s PVOH adds value to your products and brings clear benefits:
EXCEVAL™ - Kuraray’s water-soluble ethylene vinyl alcohol

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MOWIFLEX™ - Thermoplastic processable polyvinyl alcohol

MOWIFLEX™ is Kuraray’s polyvinyl alcohol-based polymer compound for thermoplastic processing. This nontoxic resin is water-soluble and forms clear, glossy films. It has high tensile strength and can be processed using conventional thermoplastic technologies (blow film extrusion, injection molding, 3D printing, etc.). Moreover, MOWIFLEX™ can be colored, allowing processing as a highly concentrated masterbatch.

Dawn of a new era in polyvinyl alcohol

Kuraray is bundling its global polyvinyl alcohol (PVOH) products under the same KURARAY POVAL™ brand. KURARAY POVAL™ meets all requirements - from low to high viscosity, partially to fully saponified PVOH. With more than 120 products for a wide variety of applications and is supported by two specialty ranges: EXCEVAL™ and MOWIFLEX™. With more than 70 years of experience and extensive production and applications expertise, we can offer the properties of our polymers precisely to our customers’ specifications. "Here to innovate" is therefore both our slogan and our promise to you. Kuraray’s PVOH adds value to your products and brings clear benefits:
The applications of polyvinyl alcohols are wide-ranging; their main uses are in the paper, textile, emulsion, PVC, construction, adhesives, packaging, and oil industries. As a family, these materials display a variety of properties, they keep food and other products fresh. In the paper industry they play an important role, as carriers for optical brighteners, in barrier coatings against mineral oils/fats, and in paper for offset printing.

As a component used in the cementation of oil wells KURARAY POVAL™ can reduce the setting time of mortar. It is also used as a temporary binder to facilitate the production of high-strength industrial ceramics. Its solvent resistance ensures the functionality of protective clothing. KURARAY POVAL™’s unique colloidal properties assist in the production of suspensions for PVC polymerisation and the manufacturing of VAE emulsions. A high polyvinyl alcohol content in the production of sponges makes them resistant to chemicals and enhances their mechanical stability. The physical and chemical properties of polyvinyl alcohols make them suitable for a wide range of applications.

KURARAY POVAL™ is water-soluble, has specific molecular characteristics, excellent forming properties, and high tensile strength. In addition, it is also resistant to heat and organic solvents. Above all, the range of applications is based on its chemical properties, especially on the ability of its numerous hydroxyl groups to react with substances such as reactant resins, aldehydes and other reactive compounds. 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-powder. 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.
EXCEVAL™ - Kuraray’s water-soluble ethylene vinyl alcohol

EXCEVAL™ is the trademark of Kuraray’s ha-
llogen-free hydrophobic polyvinyl alcohol. Al-
though EXCEVAL™ is water-soluble similar to
fully hydrolyzed KURARAY POVAL™ grades it ab-
sorbs less moisture at ambient temperatures in
comparison. Hence EXCEVAL™ is the polyvinyl
alcohol of choice for water resistant emulsions,
for D3 and D4 adhesives. Furthermore,
EXCEVAL™ produces coatings with excellent gas barriers,
e.g. towards oxygen, nitrogen and carbon di-
oxide, even in humid environments.

MOWIFLEX™ - Thermoplastic processable polyvinyl alcohol

MOWIFLEX™ is Kuraray’s polyvinyl alcohol-
based polymer compound for thermoplastic pro-
cessing. This nontoxic resin is water-soluble and forms clear, glossy films. It has high handle
strength and can be processed using conventio-
nal thermoplastic technologies (blown film ex-
trusion, injection molding, 3D printing, etc.).

Moreover, MOWIFLEX™ can be colored, allowing
processing as a highly concentrated master-
batch.
The applications of polyvinyl alcohols are widely ranging: their main uses are in the paper, textile, emulsion, PVC, construction, adhesives, packaging, and oil industries. As a functional, non-resin binder they form a matrix lattice; they keep food and other products fresh. In the paper industry they play an important role, as carriers for optical brighteners, in barrier coatings against mineral oils/fat, and in paper for offset printing.

As a component used in the cementation of oil wells KURARAY POVAL™ controls fluid loss and the setting time of mortar. It is also used as a temporary binder to facilitate the production of high-strength industrial ceramics. Its solvent resistance ensures the functionality of protective clothing.

KURARAY POVAL™’s unique colloidal properties assist in the production of suspensions for PVC polymerisation and the manufacturing of VAE emulsions. A high polyvinyl alcohol content in the production of sponges makes them resistant to chemicals and enhances their mechanical stability. The physical and chemical properties of polyvinyl alcohols make them suitable for a wide range of applications.

KURARAY POVAL™ is water-soluble, has specific colloidal characteristics, excellent forming properties, and high tensile strength. In addition, it is also odorless and resistant to heat and organic solvents.

Above all, the range of applications is based on its chemical properties, especially on the ability of its numerous hydroxyl groups to react with substances such as reactant resins, aldehydes and other reactive compounds.

Adding value to your products - worldwide