# Water Soluble Film Types - Specifications and Applications

<table>
<thead>
<tr>
<th>Classifications</th>
<th>Cold water soluble film</th>
<th>Hot water soluble film</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Type Z</td>
<td>Type C</td>
</tr>
<tr>
<td>Dissolving Temperature</td>
<td>5°</td>
<td>15°</td>
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<tr>
<td>Applications</td>
<td>Embroidery, packaging of detergent, pesticide and fertilizer, Fishing bag</td>
<td>Embroidery, packaging of detergent, pesticide, fertilizer and cement additives, fishing bag</td>
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</tbody>
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FEATURES of PVA Film

**ECO-friendly**
PVA film is ‘Green’ packaging materials. It is verified by micro-organism tests that PVA is non-toxic and doesn't restrain from the growth of micro-organism and can be biodegraded completely.

Once PVA dissolves in water, specific microorganism will cause it to degrade. When being treated with activated sludge, PVA solution will be decomposed into water and carbon dioxide.

**Water solubility**
PVA film has excellent water solubility properties and is able to dissolve in different water temperatures and at different solving pace.

**Good gas barrier property**
PVA film has an excellent gas barrier properties to different gas elements e.g. oxygen, nitrogen, hydrogen, helium, argon, carbonic acid gas…etc except moisture and NH3. The gas blocking property makes PVA an excellent preservation packaging for the food by keeping the freshness.

**Releasing property**
As PVA film is separated easily from hydrophobic plastic and released easily from various organic materials that have a little polarity. Water-soluble PVA film has been found to act as mould release film for the unsaturated polyester epoxy resin or other thermosetting resin.

**Good antistatic property**
PVA film is anti-static and excellent for electric products packaging.

**Resistance to oil and organic solvents**
PVA film resists animal oils, vegetable oils, mineral oils, fats, organic solvents and hydrocarbons to penetrate and is excellent packaging for organic solvents and oily products.