



AquaFlex EX-CWS #001

Extrusion coating application
cold water grade

PRODUCT DESCRIPTION

- AquaFlex™ is a polymer product based on polyvinyl alcohol, which are water-soluble polymers.
- These materials are environmentally friendly materials with water solubility and biodegradable properties, they can be completely dissolved in water. In natural environment, microbes ultimately break the products into carbon dioxide and water. After returning to the natural environment, they are non-toxic to the plants and animals.
- Water soluble temperature and speed of the materials can be customized to meet customer requirements.
- Supply in pellet form.

TECHNICAL DATA

Parameter	Analysis method	Result
Color	Organoleptic evaluation	Natural color
Odor	Organoleptic evaluation	Neutral
Form		Pellets
Density	ASTM D618	1.27 g/cm ³
Melt flow index (190°C/2.16kg)	ASTM 1238	13-14.5 g/10min
Melting temperature (DSC)	ASTM D 3418	180°C
Water Content	ASTM D6980	<0.5%

Technical performance of the film		
Tensile strength MD/TD	ASTM D 638	>25 Mpa
Elongation MD/TD	ASTM D 638	>150%
Water temperature	Dispersion (sec)	Dissolution (sec)
Solubility of 25 microns film		
Beacker 600ml - 30°C water	12	120
Solubility of 60 microns film		
Beacker 600ml - 30°C water	20	200

PROCESSING INFORMATION

- Blowing instruction: to preheat the extruder to 200°C, then input the material from the silo, when there is molten resin coming out from the extruder, then lower the temperature to 180-190°C. Please adjust the temperature within this range according to the blowing film situation.
- General Processing Information: it is normally processed at melt temperatures ranging from 180°C - 190°C

Processing Temperature Profile	
Melt Temperature	180°C
Feed Throat	182 °C
Feed Temperature	185 °C
Compression Section	185 °C
Metering Section	187 °C
Adapter	190 °C
Die	190 °C
Screw Speed	10-20HZ

STORAGE AND HANDLING

- Pellets are packed and shipped in vacuum bags put inside a carton and are ready to use as supplied. They should be stored in a sealed container with desiccant in a dry location away from heat.
- If pellets are exposed to a humid environment, they will absorb moisture from the air. If needed, dry pellets by introducing warm dry air at 60°C for 1-4 hours. Pellets should be <0.5% moisture content prior to processing.

Regional Centers

For help finding a local representative, please contact the following regional customer contact centers:

PVA PRO JSC

Add: 504 Nguyen Tat Thanh, District 4, HCMC

Tel: (+84) 774 833 230

Email: info@pva-pro.com