



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, and can be dissolved in hot water (about 70°C).
- Supply in pellet form.

Parameter	Analysis method	Result
Color	Organoleptic evaluation	Natural color
Odor	Organoleptic evaluation	Neutral
Form		Pellets
Density	ASTM D618	1.29 g/cm ³
Melt flow index (230°C/2.16kg)	ASTM 1238	5.5-6.5 g/10min
Melting temperature (DSC)	ASTM D 3418	215ºC
Water Content	ASTM D6980	<0.5%

TECHNICAL DATA

Information in this document is based on our current knowledge and experience. It does not relieve customers of the responsibility to carry out their own testsand experiments nor do they imply any legally binding assurance. Customers are responsible to determine their freedom to operate to ensure that their products do not infringe any intellectual properties. PVA PRO JSC assumes no obligation or liability for the information in this document.

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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 - 70ºC water	12	120	
Solubility of 60 microns film			
Beacker 600ml - 70ºC water	20	200	

PROCESSING INFORMATION

- Blowing instruction: to preheat the extruder to 220°C, then input the material from the silo, when there is molten resin coming out from the extruder, then lower the temperature to 200-220°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 200°C - 220°C

Processing Temperature Profile		
Melt Temperature	215°C	
Feed Throat	223 °C	
Feed Temperature	223 °C	
Compression Section	223 °C	
Metering Section	221 °C	
Adapter	220 °C	
Die	218 °C	
Screw Speed	9-12 HZ	

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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.</p>

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