



®Mowiol / Kuraray Poval Technical Information

Kuraray Poval CP-1210T30

Product Characteristics; Formulated polyvinyl alcohol

Melt flow index (190 °C, 2.16kg);	1.5 – 3.5	g / 10min
Melting point;	160 – 170	°C
Glass Transition Temperature;	45 – 55	°C
Specific Heat;	0.4	cal / g °C
Density;	1.25 – 1.35	g / cm ³
Solubility into water;	soluble into cold water	

Form supplied; **Pellet**

Recommended uses; **Manufacture of water soluble shaped articles
by melt extrusion**



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Processing

CP-1210T30 can be used on commercial standard extruders for the processing of thermoplastic poly olefins. The material absorbs moisture once the packaging is opened and should be therefore processed only from unopened original bag. Otherwise bubbles may occur in the molding. Damp material can be dried at 60 – 80 °C for 6 – 8 hours in a circulated air dryer. Suitable processing temperature would be from 180 – 200 °C range and it should not exceed 200 °C because of at higher temperatures the material suffers thermal damage. Residence time should be as short as possible, 5 – 10 minutes at most.

Cleaning the extruder

Following extrusion of CP-1210T30, the extruder must be cleaned with a poly olefin if similar melt viscosity.

Storage

CP-1210T30 remains stable for at least 12 months in its original container provided if it is stored correctly, i.e. indoors at room temperature and dry condition. Like all thermoplastics, CP-1210T30 must be stored in a cool place.