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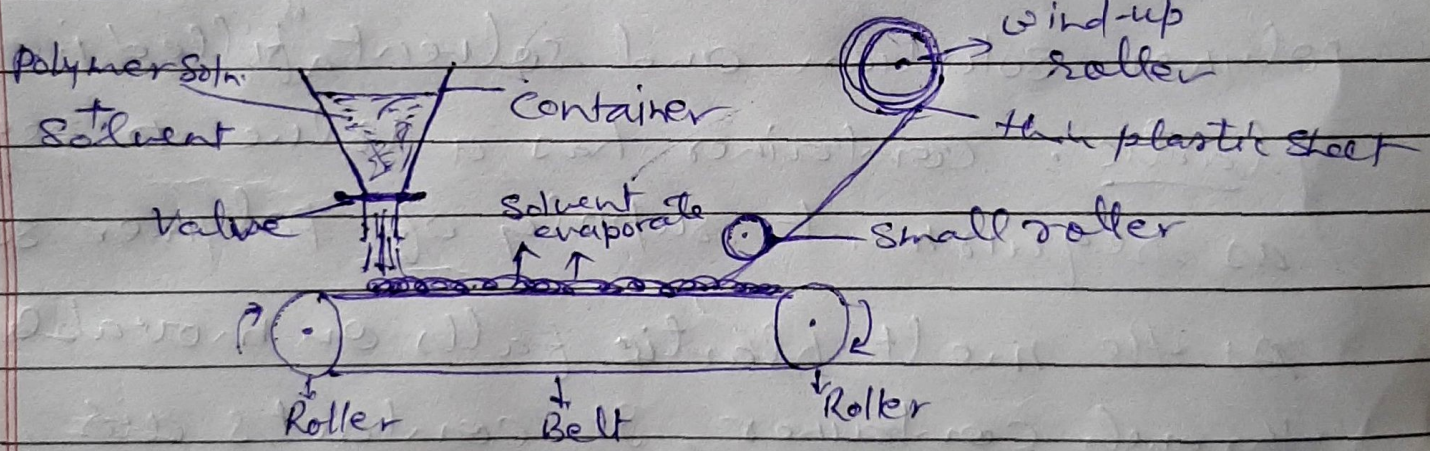
Film Casting

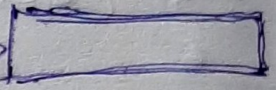
It is used for formation of thin plastic sheets.

There are the following components are used in film casting

1. Roller - (front and behind)
2. convayner - (metallic belt)
3. container (contain polymer soln.) i.e molden + solvent
4. cooling by with controler convayner to polymer soln.
5. wind up roller
6. small roller to support of shape.
7. Valve in container.



from above fig. - film casting is used with above mentioned components to prepare formation of thin plastic sheets. In this process two long rollers are used which is rolling with help of motor & any other by which we can its drive. It is situated in begin & last of machin

one belt are joined to both roller. It is actually movable metallic belt to connect both roller. that means one roller rotates with sec roller also rotates with help of belt. first roller can driver and second can drive or both can driver with help of motor. This belt is shaped as requirment of us (L × W) → 

At this machine, one container also attached as seen fig. In this container polymer solution and solvent is filled i.e Melt plastic. Container has a Valve to regulate as requirment supply of polymer solution. As the melt plastic falls on movable belt through container, It contacts air, the solvent evaporates, by this evaporation of solvent, polymer solution cooled & convert sheets. Again it conects with a small roller as fig, which is used to direction or shape. and then continuous film pass to wind-up role and collect all thin plastic sheet at this wind-up role & again throigh this process, collect next sheet.