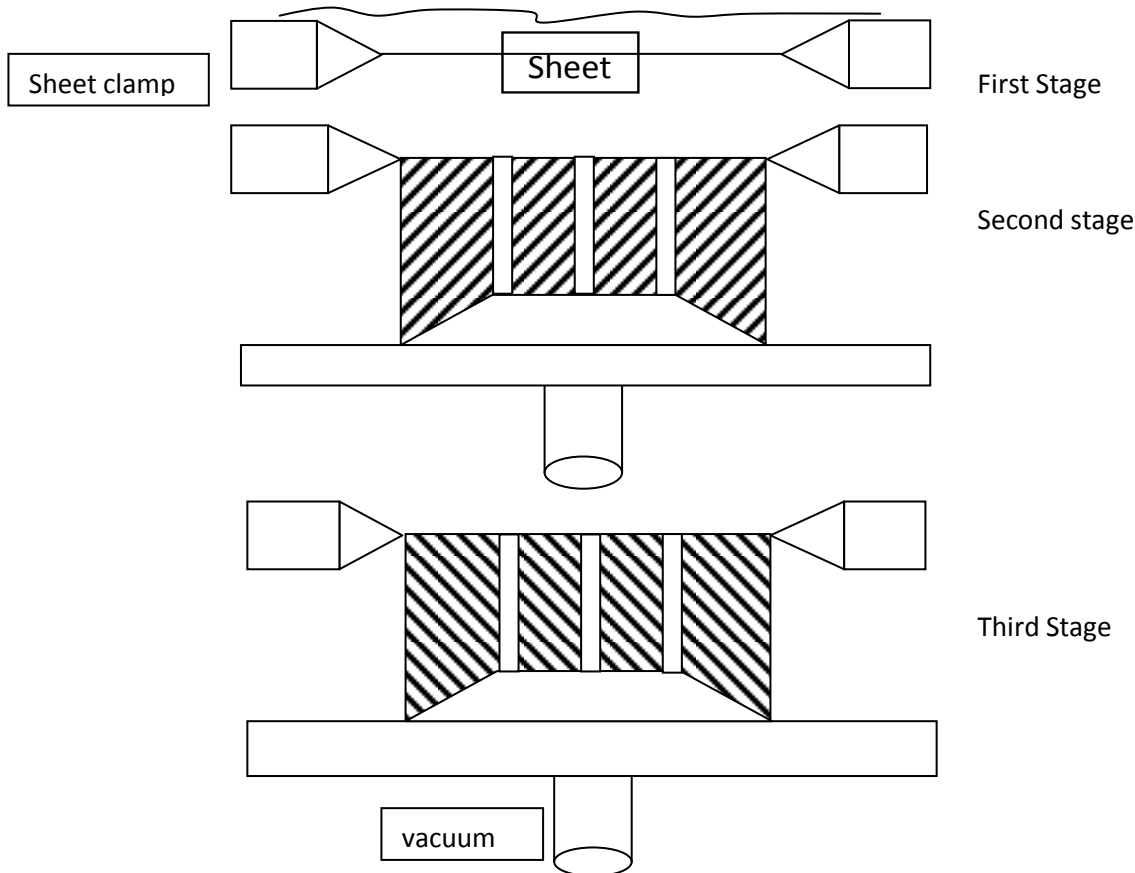


Thermo forming OR Vacuum forming Process

Working principle

Heated plastic sheet is changed - to a desired shape - by causing it to flow - against the mould surface - by reducing the air pressure – between one side of the sheet and mould surface.



Plastic sheet is heated in heater and sheet fixed in clamp in first stage.

In second stage heated sheet is placed on the die . – Now the air between sheet and mould is removed

In third stage increasing intensity draws the sheet against the surface of the mould and cooled

If large surface area of mould used stretching of plastic into mould is difficult.

Thermoforming or vacuum forming process is suitable for Large surface area of mould is to be produced.

Application

- 1 useful to make trays , cups and refrigeration door linings
- 2 panel for advertising signs, and making panel for shower stalls

Advantages

1. Low cost and quick process for making sheets
2. Air pressure acts as a cushion
3. Temperature of air delays the sheet cooling
4. Wide range of variety of plastics are produced.