

Manufacturing processes

Sheet 10

What to include:

Manufacturing techniques (Secondary research 4): This sheet will contain Manufacturing techniques of how your final product would be made in industry; Vacuum forming, injection moulding, etc. On this sheet you should consider:

More info: See your revision guide (Moulding page 69, Extrusion page 71, Vacuum forming page 70)

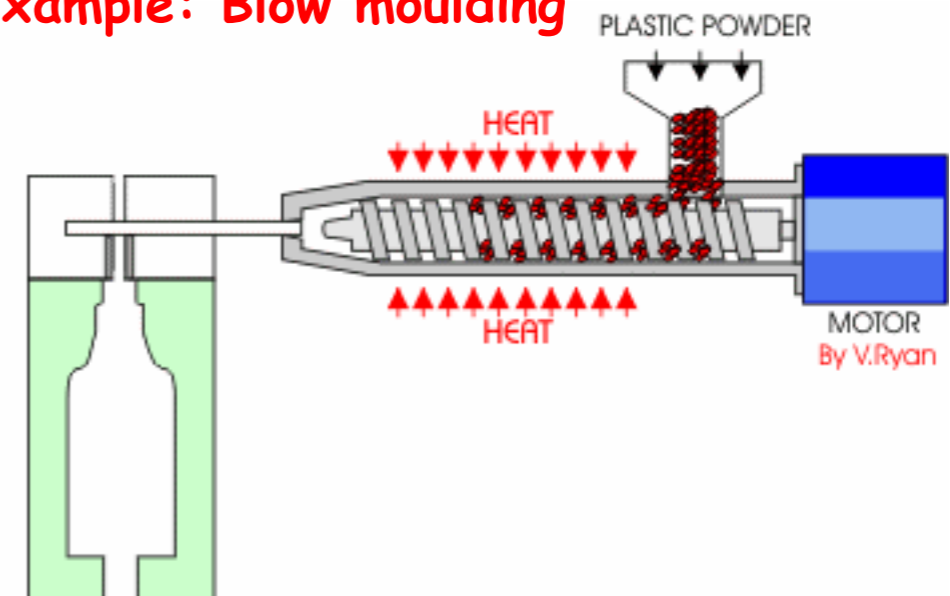
Also see technology student and scroll to the bottom of the page

<http://technologystudent.com/equip1/equipex1.htm>

- o Page number, title and your name.
- o How will it be manufactured?
 - Injection molding.
 - Blow molding.
 - Extrusion.
 - Rotational molding.
 - Vacuum forming.
 - Environmental issues.
 - Industrial production methods.

Note: - do not just copy and paste their info, please put in your own words!!! Include diagrams and present in a flow diagram.

Example: Blow moulding



Blow moulding a shape is a common industrial process. The example shown below is of the production of a plastic bottle. The plastics normally used in this process are; polythene, PVC and polypropylene.

The process is similar to injection moulding and extrusion.

1. The plastic is fed in granular form into a 'hopper' that stores it.
2. A large thread is turned by a motor which feeds the granules through a heated section.
3. In this heated section the granules melt and become a liquid and the liquid is fed into a mould.
4. Air is forced into the mould which forces the plastic to the sides, giving the shape of the bottle.
5. The mould is then cooled and is removed.

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