

Polymer Moulding

Q1. An injection moulding machine is divided into two main sections. What are they?
(a) clamping unit, (b) hopper, (c) injection unit, (d) mould or (e) part ejection unit.

Q2. What are the two basic types of clamping units?

a.

b.

Q3. What is the function of gates in an injection moulds?

Q4. Which of the following defects can occur in plastic injection moulding? (a) bambooing, (b) die swell, (c) drag flow, (d) flash, (e) melt fracture, (f) short shots or (g) sink marks?

Q5. The forward movement of polymer melt in an extruder barrel is resisted by drag flow, which is caused by resistance to flow through the die orifice. (a) true or (b) false?

Q6. Use of a parison is associated with which one of the following plastic shaping processes (a) bi-injection moulding, (b) blow-moulding, (c) compression moulding, (d) thermo-forming or (e) sandwich moulding.

Polymer Injection Moulding Video

Q7. According to the video, what are the four primary elements that influence the injection moulding process?

Q8. From the video, name the four types of mould design most common in industry?

Q9. From what you've seen, what did the video tell you about the what is the most common type of injection moulding machine used in industry?

Polymer Blow Moulding Video

Q10. According to the blow-moulding video, what materials are used in blow-moulding?

Q11. List the four most common blow-moulding processes according to the video on blow moulding.

Q12. List the stages of extrusion blow moulding according to the video.