

MOL-6216 Processing of Plastics  
Examination 22.5.2013  
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Calculators are not permitted

Answer to all questions.

1. Briefly explain the following concepts: (6 pts)
  - a) Dispersive mixing
  - b) Barrier screw
  - c) Holding pressure
  - d) Coathanger die
  - e) Rock-and-roll machine
  - f) EPS
2. Name the main functional units of the injection moulding machine. Tell what functions each unit does during injection moulding cycle. (6 pts)
3. Explain the principles of extrusion. What products can be done with it? (6 pts)
4. There are several processing methods that can be used to do hollow products. Name three and briefly explain the main concept of each. (6 pts)
5. What are the benefits of foaming? What are the steps of typical foaming process? (6 pts)