

Polymer Chemistry – Exercises

1. Based on thermal properties, how many type of polymers? Provide example for each polymer type.
2. What is the difference between thermoplastic and thermoset polymers? Provide the structure of elastic polymers.
3. What kind of monomers that can be polymerized? Provide example for step-growth polymerization.
4. What are main kinds of polymerization methods? Provide an equation for polymerization of polystyrene.
5. What are the initiators in a polymerization? Provide an example of non-initiator polymerization.
6. Describe the difference of bulk and solution polymerization technique.
7. Describe the mechanism of polymerization of ethylene using azobisisobutyronitrile (AIBN) as initiators under high pressure. Explain why only low density polyethylene (LDPE) is obtained?
8. Explain the features of semicrystalline and amorphous polymers. With a suitable diagram, explain T_g , T_m and T_c . (2 points)
9. Describe the change of behaviors of polymers below and above T_g . (2 points)
10. Consider the following facts: Nylon 6 is crystalline, polybutadiene is amorphous and polyvinyl alcohol is crystalline. With the help of structures, explain the reasons for these facts. (2 points)
11. Describe the difference of monomer conversion – polymer chain length diagrams of chain polymerization and step-growth polymerization. Predict the diagram of controlled living polymerization.
12. What is the crystallinity of polymers? How do crystallinity affect to the properties of polymers? Describe the factors affected to the change of crystallinity of polymer.
13. Describe the difference of emulsion polymerization and mini-emulsion polymerization. Describe the mechanism of emulsion polymerization process.
14. How many pathways to prepare a graft copolymer? What are they? Give a brief description of them.
15. Why were different initiators used in the suspension and emulsion polymerization?
16. Provide 03 monomers to obtain the following polymer.



Polymer Chemistry Exercises

Charles E. Carraher Jr.



Polymer Chemistry Exercises:

Reviewing **Polymer Chemistry Exercises**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Polymer Chemistry Exercises**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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