

### 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:**

## The Enigmatic Realm of **Polymer Chemistry Exercises**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Polymer Chemistry Exercises** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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