

Separate Science - Chemistry - Key Stage 4

C10 Using Resources

The properties of polymers

Miss Offer



Independent task - Recall questions

Answer the following questions:

1. Where are the chemicals used to make polymers derived from?
2. What are the small molecules called which join together to form polymers?
3. Which 2 factors do properties of a polymer depend on?
4. Give 3 properties which polymers often share
5. Give 2 uses of poly(ethene)
6. Give 2 uses of poly(propene)
7. Which properties does PVC have which makes it suitable for water pipes?



Independent task - Recall questions

Answer the following questions:

1. What are the conditions in which low density poly(ethene) is formed?
2. How are the polymer chains arranged in low density poly(ethene)?
3. What are the conditions in which high density poly(ethene) is formed?
4. How are the polymer chains arranged in high density poly(ethene)?



Independent task - Recall questions

Answer the following questions:

1. Which type of polymer has covalent bonds between the chains - thermosetting or thermosoftening?
2. What is present between polymer chains in thermosoftening polymers?
3. Why do we use thermosetting rather than thermosoftening polymers to make the handles of saucepans?
4. What happens if thermosetting polymers are heated to very high temperatures?

