

Skin allergies

Some people have a skin allergy caused by their skin reacting against certain man-made fibres. This is because some of these fibres contain functional groups similar to those in the protein of their skin.

- 1 Nylon seems to cause more problems than polyester. Suggest why.

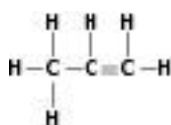
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- 2 Draw a section of a nylon molecule. Include **four** monomer units.

- 3 How is this structure different from that of protein?

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Poly(propene) is also used in the manufacture of artificial fibres. This polymer is manufactured from the monomer propene.



- 4 Draw a diagram of a section of a poly(propene) molecule. Include **three** monomer units.

5 What names are given to the types of polymerisation involved in forming the polymers mentioned above?

a Nylon:

b Poly(propene):

6 What other product, if any, is formed during the manufacture of each type of polymer?

a Nylon:

b Poly(propene):

7 What are the dangers in simply burning plastics to dispose of them?

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8 Explain the difference between the reuse and the recycling of plastics.

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9 What are two problems that need to be overcome in the effective recycling of plastics?

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