

Worksheet 11.5

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.

.....

.....

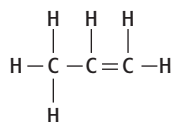
- 2** Draw a section of a nylon molecule. Include **four** monomer units.

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

.....

.....

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):