Worksheet 11.4

**1**

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| --- | --- |
| **Name and structure of monomer** | **Name and structure of polymer** |
| Ethene  WS 11 | Poly(ethene)  WS 11 |
| Chloroethene  WS 11 | Poly(chloroethene)  WS 11 |
| Phenylethene  WS 11 | *Poly(phenylethene)*  WS 11 |

**2** A monomer is the simple molecule that then is joined together into a long-chain polymer / the individual unit from which a polymer is built.

**3** They have a carbon–carbon double bond (C=C).

**4** It does not corrode / it is lighter.

**5** a It is flexible and an electrical insulator.

**b** It does not perish / poly(chloroethene) is fire resistant / it can be made in a variety of colours.

**6** tetrafluoroethene    poly(tetrafluoroethene), PTFE

WS 11

**7** These addition polymers are non-biodegradable and therefore do not rot. They give off toxic fumes when incinerated (burnt).