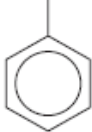


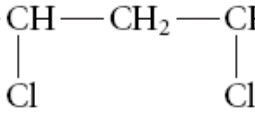
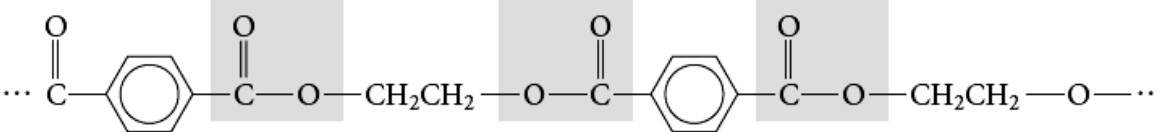
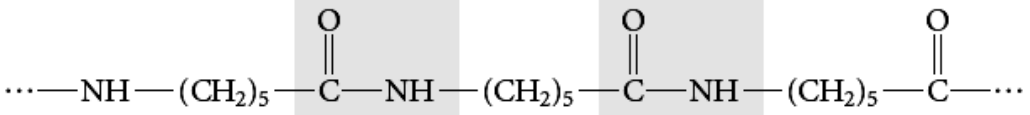


CHAPTER 15	Addition and Condensation Polymers	BLM 15.2.1
OVERHEAD		

### Examples of Addition Polymers

Name	Structure of monomer	Structure of polymer	Uses
polystyrene	$\text{H}_2\text{C}=\text{CH}$  styrene	$\cdots\text{CH}_2-\text{CH}-\text{CH}_2-\text{CH}\cdots$  polystyrene	<ul style="list-style-type: none"> <li>• styrene and Styrofoam™ cups</li> <li>• insulation</li> <li>• packaging</li> </ul>
polyvinylchloride (PVC, vinyl)	$\text{H}_2\text{C}=\text{CH}$  vinyl chloride	$\cdots\text{CH}_2-\text{CH}-\text{CH}_2-\text{CH}\cdots$  polyvinylchloride	<ul style="list-style-type: none"> <li>• construction materials</li> <li>• sewage pipes</li> <li>• medical equipment</li> </ul>

### Examples of Condensation Polymers

Name	Structure	Uses
Dacron™ (a polyester)	 ester bond      ester bond      ester bond	<ul style="list-style-type: none"> <li>• synthetic fibres used to make fabric for clothing and surgery</li> </ul>
Nylon-6 (a polyamide)	 amide bond      amide bond	<ul style="list-style-type: none"> <li>• tires</li> <li>• synthetic fibres used to make rope and articles of clothing, such as stockings</li> </ul>