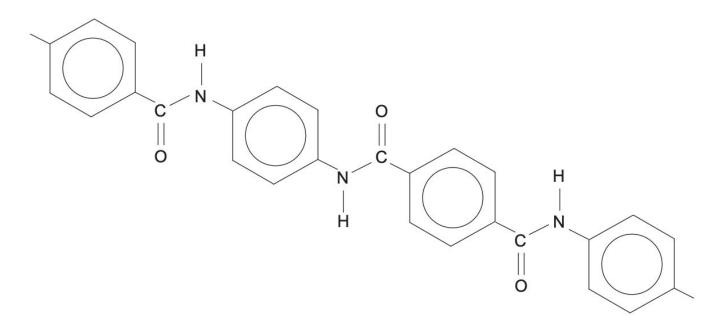
Quest	ion 29	(9 marks)			
Addition and condensation polymers are used in industry to produce a vast range of plastic					
Select <b>one</b> addition polymer you have studied and use it to complete parts (a) to (c).					
(a)	Draw and name the structure of the monomer used to produce this polymer.	(2 marks)			

Name:

Draw and name the polymer, including at least <b>three</b> repeating units.	(2 mark
Name:	
State one use for this polymer, making reference to its relevant property/ies.	(2 mar

Kevlar is a condensation polymer utilised for its high strength. A section of the Kevlar polymer is drawn below.



- (d) Draw the **two** monomers from which Kevlar is derived. (2 marks)



Kevlar's high strength can be attributed in part to the hydrogen bonding that occurs between	n
neighbouring chains. This is similar to a secondary structure of proteins.	

(e)	To what secondary structure of proteins does this refer?	(1 mark)