AQA A-Level Organic Chemistry 2 Addition Polymers

	Addition polymers	Condensation polymers
What + How	Long chain molecules made from joining shorter molecules (monomers) together forming long chain molecule, NOTHING ELSE IS PRODUCED	Long chain molecules made from joining shorter molecules together forming long chain molecule, WITH ONE SMALL MOLECULE FORMED (E.G. WATER)
Monomer	Alkenes + Molecules w/ C=C bonds	Dicarboxylic acids with diols Dicarboxylic acids with diamies Amino acids
E.g.	Poly(ethene). PVC. Poly(propene)	Polyesters (e.g. terylene). Polyamides (e.g. nylon, Kevlar)
Biodegradability	NON-BIODEGRADABLE. No polar bonds in main chain all C-C	BIODEGRADABLE. Has polar C-N or C-O bonds in main chain

Polymers = Plastics

Polymers = long chain molecules made form lots of small molecules joined together

Monomer = small molecules that join together to make polymers

Addition polymerisation = formation of long chain molecules form lots of small molecules joining together with no other products

The process where monomers join together = polymerisation

2 types of polymers = addition (no other products formed)

= condensation (small molecule such as water lost)

Alkenes+other molecules with C=C bond can react with each other to join together to form polymers through the C= bonds

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