Types			
Theramoplastic Pol	ymers		
		oling. The long co	hoins slide over each other when
	yet strong, and m lyethere, PVC		
D Thermosetting 1	Polymers		
· Regid solid	04 soon of nac	le, not moulda	ble
-> Used in;	used instead of	morbles an coun	Testops
Important Properties  Les Chain Length; tons  IMF inf chains		with chain long	th, becouse there are more
L> choin fleability: lorger molecul	Its high if chain is es. Eg; Poly ethene is l	. thin and long , wh decible, Kerlah is m	hile lease when thain its made of which move rigid
			e-groups on their chain, Eq. a groups like Ce increase IMf, so inger and horder to melt.
			nnot pack together on tightly are id have lower tensile strength and r
		unks one polymer	chain to another con be coralised rubber stronger, horse, less g
Conducting poly	delsialised	are insulators, Howe electrons which as	ver, some polymers contain in more and conduct electricity
-н н н н н	Differences	Addition polymers	Condensation polymers
	The type of reaction	Addition reaction only	Addition reaction followed by alimination reaction

Differences	Addition polymers	Condensation polymers
The type of reaction	Addition reaction only	Addition reaction followed by elimination reaction, resulting in the condensation of a small molecule such as H <sub>2</sub> O or HCl
Type of links along the central chain	C-C single bonds only, which are non-polar	Short aliphatic or aryl sections linked by either ester groups or amide groups, which are polar
The type of monomer involved	All monomers have C=C double bond	The monomers have molecules with at least two functional groups, which may be the same or different
Hydrolysis	Resistant to hydrolysis	Undergo hydrolysis

	Disposal of Polyalkenes				
· Only condensation polymers are bior degradable	As it becomes more and more expensive to dump waste in landfill sites, plastics are seen as an increasing problem.				
· PLA (Poly loctic oris) is biodegradable.	The major problem with most plastic waste is that it is non-biodegradable.				
,	This means that the only choices for dealing with plastic waste are recycling				
· some rollmons known as aboutedgandable rollmon	and energy recovery.				
can be broken down by dight, governably this	ZAM				
can be broken down by hight, generally this can be achieved by incorprating C=O at intervals down the length of the polymer, this bond breaks down when exposed to UV light					
- The second sec					
-> Few examples; synthetic Poly exter: Terylene					
Polyamine: Nulan, Kern	or				
Notrural Robyester: forts	•				
Natural Polyamide: Protein					
When me are they that the treath U till	t and which to				
my in properties the tensul strength, floated	thy and softening remperature.				
Vory in properties like tensile strength, floridid  Nylon: Strong, not easily stretched; so a	and an Chan				
region: wrong, not easily strewal; 500	isla as fibres.				
<b>,</b>					
Polyethane & PVC: Coxily shaped;					