

Date: ____/____/____
Page: ____

Difference between Addition polymers and Condensation polymers.

<u>Addition polymer</u>	<u>Condensation polymer</u>
(i) Different monomers add to form a polymer having same molecular formula of the repeating structural unit as that of starting monomer.	A large number of monomers combine with the loss of simple molecules (H_2O , NH_3 , HCl , $R-OH$) to form a polymer having molecular formula of the repeating structural unit different than that of starting monomers.
(ii) Nothing is lost during polymerisation.	(ii) Small molecules like H_2O , NH_3 , HCl , ROH are lost.
(iii) Generally involves one monomer.	(iii) Involves two monomers.
(iv) The monomers are generally unsaturated compounds.	(iv) The monomers generally contain two functional groups.
(v) Common: eg $\rightarrow$ Polythene, Polypropylene, PVC etc	(v) Common eg $\rightarrow$ nylon-66, terylene, bakelite, etc