PLASTICS

Polymeric material which can be easily moulded or set into any desired shape and size

- On the basis of their reaction to heat
  - Thermosplastic
    - PVC polymer of vinyl chloride
    - Polythene polymer of ethene
    - PS polymer of styrene
    - PET (polymer of ethylene glycol & terphthalic acid)
    - PP (polymer of propylene)
  - Thermosetting plastic
    - Melamine
      - Monomer (Melamine & formaldehydae)
      - Properties (Hard and unbreakable)
      - Uses (decorative objects, dinner set)
    - Bakelite
      - Monomers (Phenol & formaldehyde)
      - Properties (Hard, stiff and insulator)
      - Uses (combs, switches, table top laminates phonograph recrods)
- Types
  - On the basis of arrangement of monomer unit
    - Linear PVC,HDPE
    - Branched LDPE
    - Cross-linked Bakelite,Melamine
- Properties
  - Poor conductor of heat and electricity, insoluble in water non-reactive, strong, durable, light
- Problems
  - Soil and water pollution
  - On burning produces toxic gases
  - Death of animals
- Solutions
  - Reduce, Reuse, Recycle and Recover