## **Polyvinyl Chloride (PVC)**



- PVC is the second most widely used plastic resin in the world.
- Before the manufacture and disposal process of PVC has been declared as the cause of serious health risks and environmental pollution issues.
- PVC is considered as the most hazardous plastic.
- PVC is also rarely accepted by recycling programs.
- This is why PVC is best to be avoided at all cost.
- The essential raw materials for PVC are derived from salt and oil. The
  electrolysis of salt water produces chlorine, which is combined with ethylene
  (obtained from oil) to form vinyl chloride monomer (VCM). The polymerisation of
  VCM to make poly-vinyl-chloride (PVC)

## **Uses**

- PVC is typically used in toys, blister wrap, cling wrap, window frames, detergent bottles, loose-leaf binders, blood bags and medical tubing.
- It is also used in cable wires and insulation.

## **Methods to recycle PVC**

Mechanical recycling
 — which essentially involves mechanical grinding of the
 waste material to produce a granular product that can then be used in the
 production of new PVC products.

•	Feedstock recycling – Chemical processes such as pyrolysis, hydrolysis and heating are used to convert the waste into its chemical components.