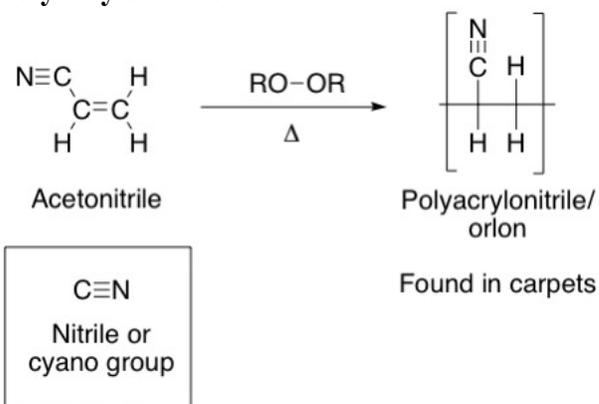
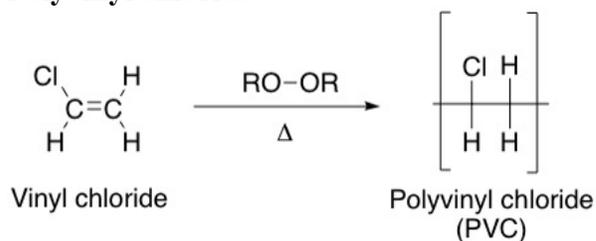
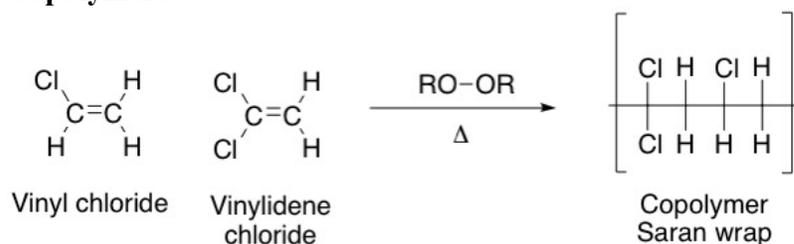


Polyacrylonitrile

Polyacrylonitrile can form HCN if it is heated to decomposition.

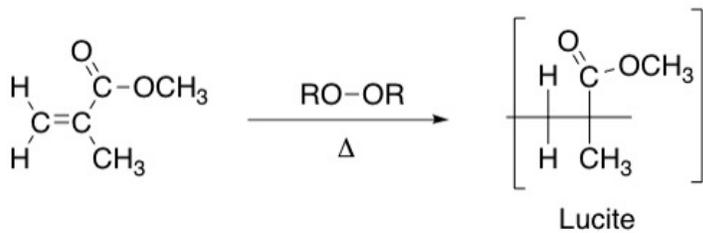
Polyvinyl chloride

Such polymers containing chloride can form HCl if decomposed.

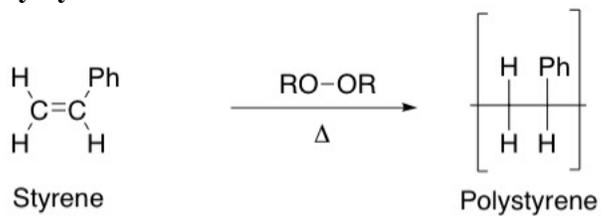
Copolymers

Copolymers are composed of two different subunits.

Lucite

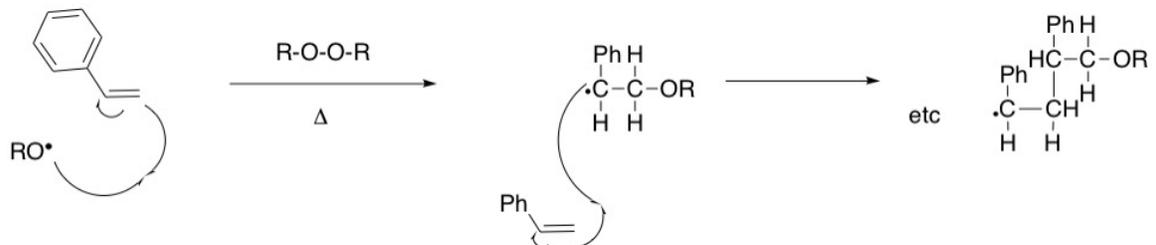


Polystyrene

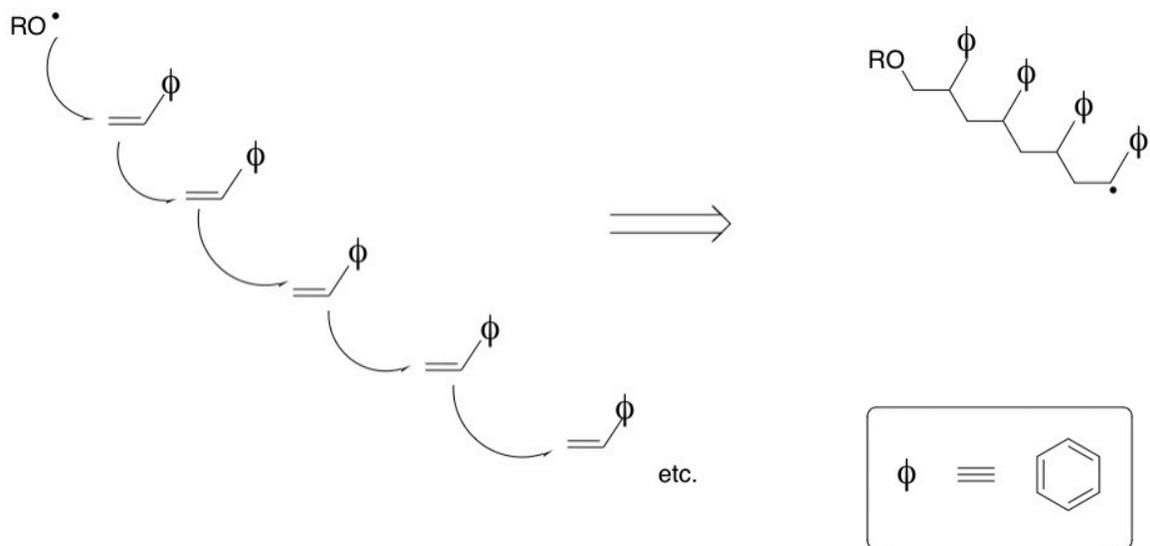


phenyl group is Ph

Example: Mechanism of polystyrene formation



Short-hand for mechanism of polystyrene formation



Divinyl benzene can be added as a cross-linker so chains link on both of its double bonds. This makes the copolymer more solid (as you encounter in many products) – typically about one part in 100 to one part in 6 of divinylbenzene may be added.

