



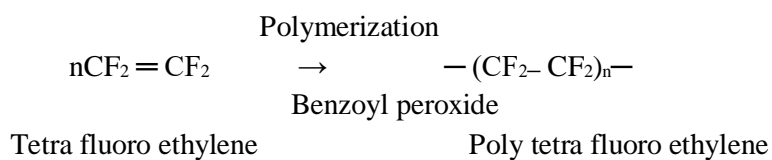
SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)
Coimbatore - 35



Teflon (Poly tetra fluoro ethylene):

It is obtained by polymerization of water emulsion of tetra fluoro ethylene under pressure in the presence of benzoyl peroxide



Properties:

- Teflon is extremely tough, flexible and the softening temperature is about 350 C.
- It has high chemical resistance towards all chemicals except hot alkali metal and hot fluorine.
- It has good electrical and mechanical properties. It shows good thermal stability.

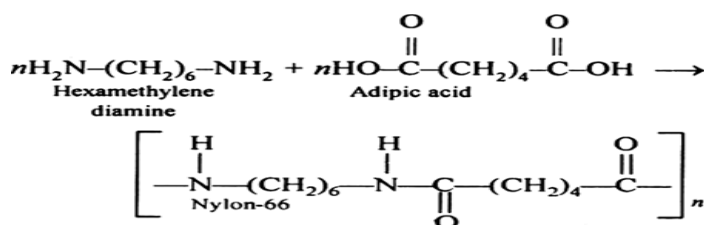
Uses:

- A good insulating material (for motors, transformers, cables, wires, fittings etc)
- It is also used for making gaskets, packagings, pump parts, tank linings etc.



Nylon 6,6:

It is prepared by the condensation polymerization of adipic acid and hexamethylene diamine in the absence of air.



Properties:

- Nylon 6,6 can be converted into nylon fibre.
- It acts as a good plastic material when properly moulded.
- Both as a fibre and as a plastic Nylon 6,6 has high strength, elasticity, toughness, abrasion resistance and good mechanical properties.
- Its softening temperature is 260 C

Uses:

- It is used in textile industry for making carpets, under garments
- It is used in engineering field for making bearings, gears etc.,