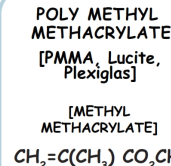
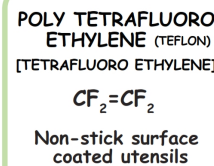
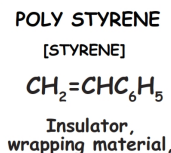
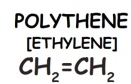


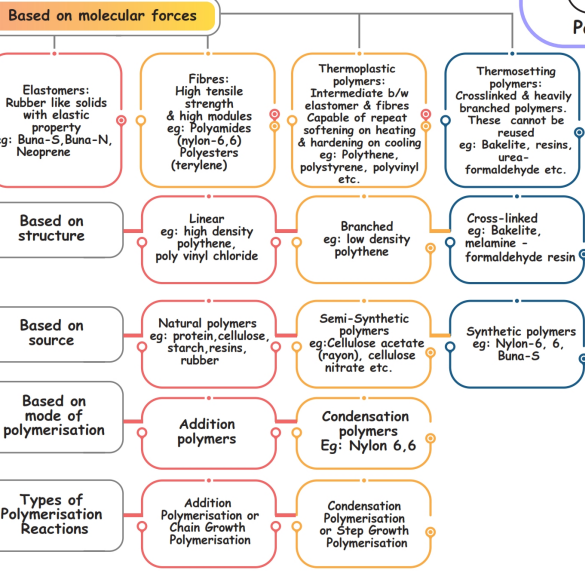
# ADDITION POLYMERS



# POLYMER

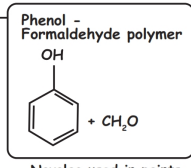
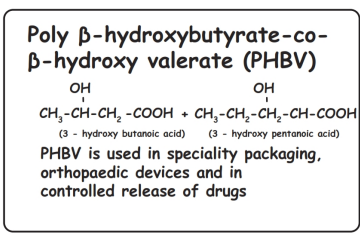
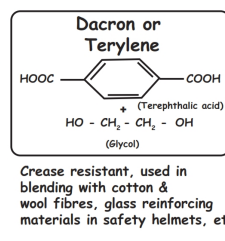
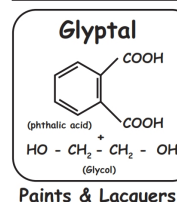
- |  |   |
|--|---|
| <p><b>Low density polythene</b></p> <ul style="list-style-type: none"> <li>High pressure of 1000 to 2000 atm at a temperature of 350K to 570 K</li> <li>Presence of traces of dioxygen or a peroxide initiator</li> <li>Highly branched structure</li> <li>Chemically inert &amp; tough but flexible</li> <li>Poor conductor of electricity</li> <li>Used in the insulation of electricity carrying wires and manufacture of squeeze bottles, toys &amp; flexible pipes</li> </ul> | <p><b>High density polythene</b></p> <ul style="list-style-type: none"> <li>Low pressure of 6-7 atm and a temperature of 333 K to 343 K</li> <li>Presence of a catalyst such as triethylaluminium and titanium tetrachloride (Ziegler-Natta catalyst)</li> <li>Linear polymers</li> <li>Chemically inert and more tough and hard</li> <li>Used in the manufacturing buckets, dustbins, bottles, pipes, etc</li> </ul> |
|--|---|

## CLASSIFICATION OF POLYMERS

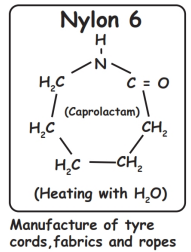
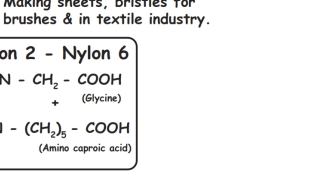
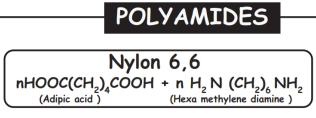
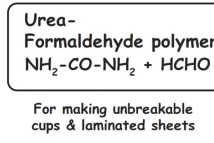
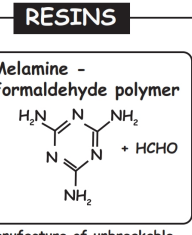


## CONDENSATION POLYMERISATION

### POLYESTERS

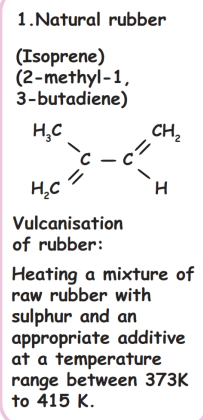


- Novolac on heating with formaldehyde undergoes cross linking to form an infusible solid mass called bakelite
- Electrical switches and handles of various utensils



## RUBBER

### 1. NATURAL RUBBER



### 2. SYNTHETIC RUBBER

