

A Modern Communications Company

GLASS

- **glass is a amorpnous, hard ,brittle , transparent super cooled liquid of infinte viscosity obtained by fusing sodium carbonate , calcium carbonate and silica**

General properties of glass

1.amorphous

2.it can be moulded to any shape

3.very brittle

4.good electric insulators

5.it can absorb, reflect and transmit light

6.on heating it softens

7.affected by alkalis

Types of glasses

1. **soda glass or soft glass**

- **Mixture of sodium and calcium silicate**
- **cheap, easily attacked by acids and easily fusible**
- **used for making windowlass,bottles,bulbs,jars and dishes**

2. Borosilicate glass or pyrex glass

- **Mixture of sodium and aluminium**
- **can withstand high temperature**
- **resistant to chemicals and low coefficient of expansion**
- **used for making laboratory glassware, kitchen wares, television tubes and industrial pipelines**

3.safty glass

- **when breaks does not allows the pieces to fly apart**
- **obtained by placing a thin layer of vinyl plastic between the two sheet of glasses.**
- **plastic and glass are pressed together under heat .**
- **it is commonly used in automobile and aero plain window shield.**

4. insulating glass

- **prepared by two or more plate of glass separated by 6-13 mm gap filled with dehydrated air and sealing around the edges.**
- **this air gap provided high insulating against heat.**
- **used for separating rooms in apartments**
- **the apartments will remain cool at summer and warm at winter.**