

Section - 4

A Mechanical Properties of Plastics

- 1) Strength - They have low tensile strength. Their strength in compression is better than in tension. Tensile strength of thermoplasts generally ranges between 15 to 90 MPa.
- 2) High Temperature Suitability - They have low melting point therefore are unsuitable for high temperature usage. generally above 100°C .

B Physical Properties -

Colour \Rightarrow Some plastics are completely transparent. Using pigments, plastics of any attractive colour can be produced.

- 2) Durability \Rightarrow Plastic offer resistance to moisture and chemicals and hence are more durable.

Ductility \Rightarrow The plastics are not ductile and hence they fail without giving warning.