

LEARNING MATERIALS

CHAPTER (SYNTHETIC FIBRES AND PLASTICS)

Topic : POLY ETHYLENE TEREPHTHALATE

- It is a synthetic polymer commonly used to make bottles, boxes, etc.
- Uses of PET:
 - I) It is used for making containers for packaging food and soft drinks .
 - II) PET bottles are commonly used in industry for selling all kinds of soft drinks, Oils and other food articles.
 - III) it is used for making tapes used in audio and video cassettes recorders.

- Acrylic Fibres (Acrylon)

These are synthetic fibres which appear to resemble wool . we wear Sweaters and shawls in winter. Many of these are actually not made from natural wool .still they appear to resemble wool made articles.

- Acrylic fibre is made from a chemical called 'acrylonitrile ' by the process of polymerisation.
- Properties of acrylic fibre
 - I) Acrylic is lightweight, soft and warm with a woo-like feel.
 - II) Acrylic retains its shape, resists shrinkage and wrinkles.
 - III) It can be dyed very well.
 - IV) Acrylic fibres are strong and durable.
 - V) Acrylic absorbs very little water so it has 'quick -dry ' quality.
- VI) Acrylic fibres are resistant to moths and most chemicals.

USES OF ACRYCLIC

- I) It is used to make sweaters, jackets, jumpers and blankets.

- II) It is also used to make industrial filters and reinforced concrete.

CHARACTERISTICS OF SYNTHETIC FIBRES

- I) Synthetic fibres are very strong.
- II) Synthetic fibres are more durable.
- III) Synthetic fibres absorb very little water.
- IV) Synthetic fibres are wrinkle resistant.
- V) Synthetic fibres are quite light weight.
- VI) Synthetic fibres are not attacked by moths.
- VII) Synthetic fibres do not shrink.
- VIII) Synthetic fibres are less expensive and readily available as compared to natural fibres.
- IX) Clothes made from synthetic fibres are easier to maintain as compared to those made from natural fibres.

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