

LEARNING MATERIALS

CHAPTER: (SYNTHETIC FIBRES AND PLASTICS)

USEFUL PROPERTIES OF PLASTICS

1 **plastic is chemically unreactive**

. plastics are chemically un- reactive. plastics do not react with air and water. Due to this plastics are resistant to corrosion .on the other hand we can say plastics are not affected by the weather. plastics are also often unaffected by various chemicals including acids and bases .since plastics are unreactive and resist corrosion the plastic containers are used to store various kinds of materials including many chemicals.

2. **Plastic are poor conductor of Heat and electricity.**

Plastics do not conduct heat or electricity .so they can be used as Insulator. for example the handles of cooking utensils are made of plastic so that we can hold the hot cooking utensils safely .since plastics are poor conductor of electricity. so they are used as Electrical insulator.

example electric wires have plastic covering insulation so as to protect us from electric current passing through them. the handles of a screwdriver used by electrician are also made of plastic because it is an electrical insulator .electric switches and sockets also have plastic covers.

3.**plastics can be moulded into different shapes**

since plastic can be easily moulded. they are used to make large variety of Articles. is having different shapes and sizes such as buckets ,mugs, furniture bed sheets sleepers electrical fittings toys combs, toothbrush es toothbrushes.

4. **Plastics are quite cheap and easily made.**

Plastics are cheaper than metals. Plastics can also be used for making many of the household and industrial articles which were earlier made from metals. For example the buckets used in our homes were earlier made from iron metal.

5. Plastic is light, strong and durable.

Plastic have low density, so they are lighter than metals.

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