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A plastic is a material which is being used by most of the peoples for industrial purpose as well as in everyday's life. What builds a plastic? A plastic is a material composed of synthetic or semi-synthetic organic solids. It has the properties of hardness and density. Pure plastic materials do not emit any toxicity but some plastics contain a variety of additives which makes them to release some toxic gases.

The most widely used product of plastic is caps. Plastic Caps are manufactured for the protection of packed items from coming out. The caps are essential as it is being used to enclose the bottles or any such products to ensure the safeties of the packed items. The plastic caps come with different sizes and colors and even as per the client's requirements. Plastic Packaging Caps are used in products like food products, medicines and pharmaceutical items. These caps have salient features like

- Durability

- Resistance against tampering and high temperatures

- Easy to carry

- Hygienic

The companies who are involved in manufacturing the plastic packaging caps have specially designed machines to deliver high quality of products. These caps are not reusable and hence it is thrown away once the usage is over. These are available in markets and buying the best products in market is suggested as there are some companies which are producing low quality caps which can get damaged easily.

Certain plastic equipments will require special caps to seal the products and one such type is plastic spout. This acts as a seal for the products so that the item does not come out. These are highly durable and safe to use.

The plastic injection molded parts are very common in India. What is meant by injection molding? It is a process of manufacturing parts from both thermoplastic and thermosetting plastic materials. The advantages of injection molding are

- High production rates

- Repeatable high tolerance

- Cost of labor is low

- Scrap losses are minimal

The processes involved in the plastic injection molded parts are

- Clamping

- Injecting

â€¢ Cooling

â€¢ Ejecting

The materials which are needed to be molded are kept in the machine where the clamps are clamped with the plastic materials and then the injector injects the substance. Generally the substances used for injecting are polymers. The polymers that are used in the process will include all thermoplastics and some thermosets which depends on the plastics which are used for molding. Common polymers that are used are epoxy, phenolic, nylon and polyethylene. The force exerted by the clamping is rated by tonnage and it holds the molded plastics together. The force exerted will vary according to the plastic used and its size. The injected polymer is allowed to cool so that the molded plastics are firm enough and finally it is ejected out as a molded plastic.

This injection molding has wider applications like bottle caps, automotive dashboard, small tables, storage containers, etc. The injection molding can produce products with complex geometry but there are some precautionary measures which are to be noted before handling the injector molding machine.

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