

Plastic processing

The improvement of modern industry and services, as well as growing use of the biosphere and its sources, resulting to increasing human intervention in the physical processes running on the planet. Related to this planned and informed of material changes in the composition and quality of the environment aimed at improving the living conditions of people in the technical and socio - economic aspects.

Consider, for example, Polymer Materials. Polymers production is one of the major sub petrochemical industry. The main sub-tasks associated with the production of a wide range of organic synthesis products: Polymer Compounds, polyethylene, polypropylene, polystyrene, polyvinyl chloride, etc. Manufacture these products involved in refineries, as well as the focused works of organic synthesis in the composition of refinery. The importance of industry to the economy is confirmed by the increased use of [Polymer Materials](#) and products for the plastic industry and the production of consumer goods. Most important Plastic processing applications are engineering, construction, light industry, production of packaging materials.

Until recently, the common use of polymeric materials in engineering prevented two seemingly polymers lacks: they are low (compared to the brand of steel) strength and low heat resistance. The turn of the strength properties of polymeric objects is able to overcome the shift to composite materials, generally glass and carbon. So now the saying "plastics stronger than steel," sounds quite reasonable. However, the polymers maintained their position in the mass production of a vast number of components, which do not need particularly high strength: plugs choke caps, handles, scales and shells of the measuring instruments.

Polymeric substances introduced into all areas of human interest - health, life, technology. Every day we are confronted with a variety of plastics, rubber, synthetic fibers. Polymeric materials have many useful properties: they are highly resistant to aggressive environments, good insulators, and heat insulator. Some polymers have a high resistance to low temperatures, while others - water-repellent Properties, and so on.

On the basis of polymers for energy-efficient technology creates a new filter and insulating materials, Polymer Resins, films, varnishes, membranes and synthetic fibers.

[Plastic technology](#) typically uses polymer additives, costly Plastic equipment for example, [Injection Molding machine](#).

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Of course, industrial development can not be blocked, but it must search for other results. To complete sustainable development, environmental security should be an integral part of the development process.

About the Author

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