

Short Communication on Polymer Chemistry

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EDITORIAL

The polymer industry has grown to be one of the most competitive and diverse in the world. Plastics, elastomers, coatings, and adhesives are only a few of the thousands of items that polymers are used in today. Polymers are used in a wide range of applications, from CDs to high-tech aerospace applications. It's difficult to imagine a time when polymer hasn't had an effect on our lives. The number of people working in this area has increased in tandem with the growth of polymer production. Today, the polymer industry employs nearly half of all chemical engineers and chemists in the United States.

Applications of polymer chemistry in different fields:

1. **Application of polymer in space:** Thermal control coatings, adhesives, tapes, potting agents, toughening/damping fabrics, seals, thin film substrates, thermal insulations, and composite structures are among the uses of polymers in space systems – space craft, space station.
2. **Application of polymer in ocean:** Because of their excellent properties such as light weight, corrosion resistance, and high strength, polymers are used as a metal substitute in sea applications. They are used in the design of boat hulls, military vessels, gas masks, and life boats.

3. **Application of Polymer in Agriculture:** In agriculture, synthetic polymers are used as structural materials to create an environment that is conducive to plant growth, such as mulches, shelters, or green houses; for fumigation and irrigation; and for transporting and regulating water distribution.

4. **Application of Polymer in Electronics:** In agriculture, synthetic polymers are used as structural materials to create a favourable environment for plant growth, such as mulches, shelters, or green houses; for fumigation and irrigation; and for transporting and regulating water distribution.

5. **Application of Polymer in Medical and Dental application:** Dental adhesives, such as acrylic acid copolymers, are used, as are polylactic acids for dental pulp and dentin regeneration, and bioactive polymers as advanced drug delivery systems.

6. **Application of Polymer in Automobile:** Four polymers account for more than 70% of the material used in automobiles: polypropylene, polyurethane, polyamides, and PVC.

7. **Application of Polymer Civil Engineering:** Flooring, walls, cladding, rainwater, pipes, membranes, seals, glazing, insulation, and signage are all examples of polymer applications in building.

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