

Polypropylene

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Polypropylene Latest News

Recently, the Prime Minister of India laid the foundation stone for a polypropylene (PP) plant at Numaligarh Refinery Limited (NRL) at Golaghat in Assam.

About Polypropylene

- It is a **thermoplastic polymer** produced by the addition polymerization of propylene.
- It is a **synthetic resin** built up by the **polymerization of propylene**.
- It is one of the important **families of polyolefin resins**.
- Polypropylene is molded or extruded into many plastic products in which **toughness, flexibility, light weight, and heat resistance are required**.

Properties of Polypropylene

- It is highly resistant to chemical corrosion, making it an excellent choice for packaging of cleaning products and bleaches.

- It is a commodity plastic with low density and **high heat resistance**.
- **Flammability:** PP is a highly flammable material.
- **Density:** PP is one of the lightest polymers among all commodity plastics.

Application of Polypropylene

- It is widely used in polymer materials in the **plastic manufacturing industry** to produce various end products, especially plastic packaging.
- Polypropylene has high insulation properties too, making it **safe to use for plastic casing in electrical goods and cables**.
- It offers impressive chemical and biological-resistant properties and makes polypropylene an obvious choice for the **medical industry**.

Source: PIB

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