

India Polyethylene Market, By Type [High-Density Polyethylene, Low-Density Polyethylene, Linear Low-Density Polyethylene, Others], By Application [Bottles and Containers, Films and Sheets, Bags and Sacks, Pipes and Fittings, Others], By Process [Injection Molding, Blow Molding, Extrusion, Others], By End-user Industry [Packaging, Construction, Automotive, Healthcare, Consumer Goods, Others], By Region, Opportunities and Forecast, FY2019-FY2033F

Market Report | 2025-07-18 | 135 pages | Market Xcel - Markets and Data

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Report description:

India polyethylene market is projected to witness a CAGR of 5.02% during the forecast period FY2026-FY2033, growing from USD 10.04 billion in FY2025 to USD 14.86 billion in FY2033. The market has experienced significant growth in recent years and is expected to maintain a strong pace of expansion in the coming years. India polyethylene market is the growing at a rapid rate due to various application and integration in the end-user industries, such as packaging, construction, automotive and healthcare industry. The demand is boosting as it offers various unique properties such as durability, flexibility, moisture resistance, light weight, cost-effectiveness. Furthermore, the polyethylene is available in different forms like high-density polyethylene, low-density polyethylene, etc.

With the rising focus on the sustainable packaging, the companies are investing in the eco-friendly material which are environmentally friendly and produce recyclable and biodegradable products. Also, the government initiatives and innovations in recycling technologies, it is further impacting the demand of polyethylene in India. For instance, in September 2024, Castrol India Limited increased its sustainability effort by recycling content in its high-density polyethylene plastic bottles to 50%. It's aim was to achieve 2,600 metric tons of recycled plastic usage in packaging by 2024.

With the increased industrialization and infrastructure growth, the polyethylene industry is becoming critical. As the government

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increases efforts to upgrade and develop the country's infrastructure, construction application for polyethylene is on the rise. Polyethylene's durability and versatility render it a necessary product for all types of infrastructure projects, ranging from pipelines to construction membranes. This additional demand is creating growth in the polyethylene market, underscoring its pivotal position in India's development and modernization processes.

Focus on Sustainable Packaging Driving India Polyethylene Market

The focus on eco-friendly packaging is driving the India polyethylene market to a great extent. With rising environmental issues, businesses and consumers alike are seeking sustainable materials that will reduce plastic waste and carbon emissions. Companies are investing in the manufacture of recyclable and biodegradable polyethylene products. Industry leaders are targeting huge reductions in their plastic footprints by employing greater recycled content. Government regulations that promote doing things in sustainable ways contribute to this transformation further, forcing business entities to innovate and adopt more eco-friendly practices. By focusing on sustainable packaging, not only are consumers satisfied with what they desire, but polyethylene is a material that is at the center of the nation's transition towards a circular economy. As more companies adopt environmentally friendly practices, polyethylene's market is sure to experience tremendous growth driven by sustainability.

For instance, in January 2025, Huhtamaki PPL Limited announced that it is moving towards the sustainable packaging solution. Its aim is to have 100% recyclable, compostable, or reusable product by 2030.

Growth in Infrastructure Development as a Catalyst

Infrastructure development is a key driver of the India polyethylene market. With the government and the private sector investing billions to upgrade and build new infrastructure in the country, polyethylene demand for use in construction and associated purposes is increasing. Polyethylene's flexibility, strength, and affordability make it a critical material for a variety of infrastructure projects such as pipelines, construction membranes, and insulation materials. Key projects such as the Smart Cities Mission and the Bharat Mala project are driving the demand for superior materials that can accommodate large-scale urban and rural expansion. This is driving growth in the polyethylene market, reflecting its prime position in India's development and modernization drive.

In January 2025, Bharat Petroleum Corporation Limited secured funding for its Bina refinery expansion. The project involves the establishment of 1.2 million tons per year ethylene cracker unit and further increasing refinery capacity to 11 million tons per year. This expansion will yield downstream petrochemicals like linear low-density polyethylene, high-density polyethylene, polypropylene and others.

Dominance of High-Density Polyethylene in India Polyethylene Market

In India, high-density polyethylene is dominating the market. As it offers wide range of properties such strength, durability, chemical resistance. Due to these properties, they are applied in the various end-use industries such as packaging, construction, agriculture and automotive. Its usage in packed food and beverages will increase the shelf-life, convenience and hygiene. Furthermore, the demand in the consumer goods product such as personal care and electronics items boost up the market demand in India. Moreover, advancements in high-density polyethylene technology and its recyclability align with the growing focus on sustainability, further boosting its market presence. As industries continue to expand and infrastructure projects progress, high-density polyethylene's dominance in the India polyethylene market is expected to persist, driving growth and innovation in the sector.

For instance, in January 2025, India Oil Corporation Limited selected LyondellBasell Industries N.V. for its high-density polyethylene plant in Paradip petrochemical complex, Odisha.

West and Central India Dominates India Polyethylene Market Share

West and central region is dominating the India polyethylene market. With the presence of various polymers and plastic manufactures in the Gujarat and Maharashtra, it increases the market of polyethylene in the west region. Also, with the strategic location present such as better ports facility to import and export of raw material and also with the increasing infrastructure development in the region is increasing the demand of polyethylene. Furthermore, with investments in petrochemical industries, expansion projects drive the supply. Government policies and initiatives are further boosting the potential of polyethylene. For instance, in October 2023, Petronet LNG planned to set up a petrochemical complex in Dahej, Gujarat. It will produce polypropylene, high-density polyethylene and other petrochemicals. The plant will cater for the demand of petrochemicals in western region. This initiative highlights the region's dominance in the polyethylene market, driven by significant investments and

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infrastructure development.

Future Market Scenario (FY2026 - FY2033F)

-□ The demand for polyethylene, especially high-density polyethylene, is expected to grow significantly due to its extensive use in packaging, construction, and agriculture.

-□ Ongoing and upcoming infrastructure projects, such as the Pradhan Mantri Gram Sadak Yojana (PMGSY) and Smart Cities Mission, will drive the demand for polyethylene pipes and related products.

-□ Increasing emphasis on sustainable and recyclable packaging solutions will boost the demand for eco-friendly polyethylene products.

-□ Domestic refiners and petrochemical companies are planning to expand their production capacities to meet the rising demand for polyethylene in various sectors.

Key Players Landscape and Outlook

India polyethylene market is quite competitive and dynamic in terms of the players it contains. Some of the key players in the Indian polyethylene market, forming the industry landscape, include Reliance Industries Ltd., GAIL (India) Limited, Haldia Petrochemicals Limited, Indian Oil Corporation Limited, ONGC Petro additions Limited, and HPCL-Mittal Energy Limited (HMEL). These companies can be termed to be in excellent positions considering their large-scale productions, advanced technology, and innovations. Polyethylene is the most versatile polymer used for packaging, construction materials, automotive parts, and consumer goods, making it a core component of modern industries. These firms are now adopting sustainability, focusing on producing recyclable and bio-based polymers to address the concerns related to the environment. In addition, strategic joint ventures, capacity expansions, and embracing circular economy principles are helping in reshaping the market landscape.

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*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

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