

High Density Polyethylene (HDPE) Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

<https://marketpublishers.com/r/HA7B9FAA182EN.html>

Date: March 2023

Pages: 108

Price: US\$ 2,499.00 (Single User License)

ID: HA7B9FAA182EN

Abstracts

The global high-density polyethylene market size reached US\$ 78.0 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 100.0 Billion by 2028, exhibiting a growth rate (CAGR) of 4.31% during 2023-2028. The growing number of quick service restaurants, cafes, and fast-food chains; rising employment in the packaging industry to produce food-grade blow-molded bottles; and the increasing utilization in the automotive industry to manufacture tanks for storing oil, brake fluid, and washer fluid represent some of the key factors driving the market

High-density polyethylene (HDPE) is a thermoplastic polymer manufactured by the catalytic transformation of petroleum. It has high tensile strength, strength-to-density ratio, impact resistance, and melting point. It is commercially available as semi-transparent natural and black HDPE, which is required for tanks or fabricated products that are exposed to daylight. It is utilized in constructing durable infrastructure as HDPE is tougher as compared to usual polyethylene and resistant to strong acids and bases, reducing agents, and gentle oxidants. It is employed in manufacturing corrugated pipes for drainage purposes and rural and domestic sewage treatment projects, as HDPE possesses a smooth inner wall and offers flexible connection and portability. HDPE is also employed in black waste management as it remains unaffected by the acids in black waste and prevents the spread of odor from the waste. It is also used for producing fuel tanks for biodiesel and diesel fuels as it prevents condensation within the tanks. Furthermore, as HDPE is cost-effective, lightweight, and requires minimum maintenance, its demand is rising around the world.

High Density Polyethylene (HDPE) Market Trends:

At present, the increasing demand for HDPE to manufacture a wide variety of products

due to its enhanced ultraviolet (UV) stabilization and moisture resistance properties represents one of the major factors influencing the market positively. Besides this, the rising employment of HDPE in the packaging industry to produce food-grade blow-molded bottles for milk and various other beverages and food storage boxes is propelling the growth of the market. In addition, the growing number of quick service restaurants, cafes, and fast-food chains serving flavorful dishes and providing home delivery services is offering a favorable market outlook. Apart from this, the increasing demand for HDPE cable insulation and wires to protect electrical power and telecommunications cables is contributing to the growth of the market. Additionally, the rising utilization of HDPE in the automotive industry to manufacture various tanks to store oil, brake fluid, and washer fluid and interior linings, seats, and inner storage compartments in cars is supporting the market growth. Moreover, the increasing online shopping activities of consumers across the globe, along with the burgeoning e-commerce industry, is strengthening the market growth. Furthermore, the rising adoption of HDPE pipes in gas distribution and mining activities is bolstering the growth of the market.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global high density polyethylene (HDPE) market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on feedstock, application and manufacturing process.

Feedstock Insights:

- Naphtha
- Natural Gas
- Others

The report has provided a detailed breakup and analysis of the high-density polyethylene market based on the feedstock. This includes naphtha, natural gas, and others. According to the report, naphtha represented the largest segment.

Application Insights:

- Blow Molding
- Film and Sheet
- Injection Molding
- Pipe and Extrusion

Others

A detailed breakup and analysis of the high-density polyethylene market based on the application has also been provided in the report. This includes blow molding, film and sheet, injection molding, pipe and extrusion, and others. According to the report, blow molding accounted for the largest market share.

Manufacturing Process Insights:

Gas Phase Process

Slurry Process

Solution Process

A detailed breakup and analysis of the high-density polyethylene market based on the manufacturing process has also been provided in the report. This includes gas phase process, slurry process, and solution process. According to the report, slurry process accounted for the largest market share.

Regional Insights:

Asia Pacific

North America

Europe

Middle East and Africa

Latin America

The report has also provided a comprehensive analysis of all the major regional markets, which include Asia Pacific, North America, Europe, the Middle East and Africa, and Latin America. According to the report, Asia Pacific was the largest market for high-density polyethylene. Some of the factors driving the Asia Pacific high-density polyethylene market included the growing utilization of plastic pipes, increasing construction activities, rising demand for plastic containers and bottles in the food and beverage (F&B) industry, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global high-density polyethylene market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies,

competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Chevron Phillips Chemical Company LLC, Dynalab Corp., The Dow Chemical Company, Exxon Mobil Corporation, LyondellBasell Industries N.V., INEOS AG, Saudi Basic Industries Corporation (SABIC), SINOPEC Beijing Yanshan Company, PetroChina Company Ltd., Braskem SA, Reliance Industries Ltd., Formosa Plastics Corporation, Daelim Co. Ltd., Prime Polymer Co., Ltd., Mitsui Chemicals Inc., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

How has the global high-density polyethylene market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global high-density polyethylene market?

What is the impact of each driver, restraint, and opportunity on the global high-density polyethylene market?

What are the key regional markets?

Which countries represent the most attractive high-density polyethylene market?

What is the breakup of the market based on the feedstock?

Which is the most attractive feedstock in the high-density polyethylene market?

What is the breakup of the market based on the application?

Which is the most attractive application in the high-density polyethylene market?

What is the breakup of the market based on the manufacturing process?

Which is the most attractive manufacturing process in the high-density polyethylene market?

What is the competitive structure of the global high-density polyethylene market?

Who are the key players/companies in the global high-density polyethylene market?

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