

Global High Density Polyethylene (HDPE) Market Analysis: Plant Capacity, Production, Process, Technology, Operating Efficiency, Demand & Supply, End-Use, Grade, Foreign Trade, Sales Channel, Regional Demand, Company Share, 2015-2035

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Abstracts

The global High Density Polyethylene (HDPE) market stood at approximately 36 million tonnes in 2021 and is expected to grow at a CAGR of 4.83% during the forecast period until 2035.

High-density polyethylene (HDPE) is a thermoplastic material synthesized using ethylene monomer. Ethylene can be polymerized in the gas phase to create HDPE. Petroleum is used for 'cracking,' which involves applying strong heat under regulated circumstances. This results in ethylene gas being produced. Now that these ethylene molecules are then polymerized, HDPE is the result. It can also be synthesized by several techniques, such as the Ziegler-Natta catalysis. Hostalen, Spherilene, Martech, and UNIPOL PE are popular technologies for producing HDPE. The solution polymerization process is the most widely used and is highly versatile in making a wide range of polymers. Ethylene, propylene, and catalyst systems are polymerized in excess of hydrocarbon solvent.

HDPE can withstand high temperatures, is tough, opaque, has a high specific strength, and is chemical-resistant. The high strength-to-density ratio makes HDPE a versatile material. HDPE is employed to manufacture a wide array of goods, such as children's toys, temporary suits, chairs, pipes, and bottles. HDPE is also used to manufacture high-performance pipes, blow-molded household, and industrial bottles, oil bottles, injection-molded food containers,

High Density Polyethylene (HDPE) is an outstanding material that can create solid and light items. The demand for packaging materials for electronic items, dairy, veggies, meat, and beef, as well as a need for storage, is predicted to fuel the expansion of the global High Density Polyethylene (HDPE) market throughout the forecast period. Due to its flexible nature, HDPE has other applications in making films and flexible packaging. Commercial liners, carry bags, and other items increasingly use HDPE sheets and films, which is anticipated to propel the market in the forthcoming years. Other critical applications of High Density Polyethylene (HDPE) in the construction sector will most likely further drive the High Density Polyethylene (HDPE) market in coming years. The overall demand for High Density Polyethylene (HDPE) is anticipated to reach approximately 70 million tonnes by 2035.

Asia Pacific dominates worldwide with the highest demand for High Density Polyethylene (HDPE). This region accounted for roughly 40% of the global HDPE market in 2021. Due to rapid industrialization, and urbanization, (rising construction activities in the residential, and non-residential sectors), the demand of HDPE is anticipated to grow in countries like India, Malaysia, China, and Japan in the forecast period. Furthermore, the increasing demand of HDPE pipes in countries like the USA is expected to hype the market of HDPE further. In addition, China is a global force for plastics, gadgets, and consumer goods, which is another factor that would likely propel the market for high density polyethylene (HDPE) throughout the projection period.

Based on grade, the HDPE market is segregated into Extrusion Molding, Blow Molding, Injection Molding, and Others. Among these, Extrusion Molding is leading the market. In 2021, this grade had about 42% of the market. Based on the end-user industry, the High Density Polyethylene (HDPE) market is divided into Packaging, Construction, Consumer Goods, Agriculture, and Others. The packaging industry dominates the global HDPE market. In 2021, this industry accounted for roughly 40% of the market and was anticipated to maintain its lead in the forecasted period by 2035. The beverage and medical goods industries use HDPE bottles for packaging, which is expected to increase the demand for HDPE in the forthcoming years.

Significant companies for Global High Density Polyethylene (HDPE) market are LyondellBasell Industries N.V., INEOS Olefins and Polyolefins, Nizhnekamskneftekhim JSC(NKNK), ORLEN Unipetrol, SCG Chemicals, Lotte Chemical, Chevron Phillips Chemical, Braskem SA, ExxonMobil, and Saudi Polymers Company.

Years considered for this report:

Historical Period: 2015- 2021

Base Year: 2021

Estimated Year: 2022

Forecast Period: 2023-2035

The objective of the Study:

To assess the demand-supply scenario of High Density Polyethylene (HDPE), which covers the production, demand, and supply of High Density Polyethylene (HDPE) around the globe.

To analyze and forecast the market size of High Density Polyethylene (HDPE).

To classify and forecast the Global High Density Polyethylene (HDPE) market based on end-use and regional distribution.

To examine global competitive developments such as new capacity expansions, mergers & acquisitions, etc., of the High Density Polyethylene (HDPE) market.

To extract data for the Global High Density Polyethylene (HDPE) market, primary research surveys were conducted with High Density Polyethylene (HDPE) manufacturers, suppliers, distributors, wholesalers, and Traders. While interviewing, the respondents were also inquired about their competitors. Through this technique, ChemAnalyst was able to include manufacturers that could not be identified due to the limitations of secondary research. Moreover, ChemAnalyst analyzed various segments and projected a positive outlook for the Global High Density Polyethylene (HDPE) market over the coming years.

ChemAnalyst calculated High Density Polyethylene (HDPE) demand in the globe by analyzing the historical data and demand forecast which was carried out considering the historical extraction and supply and demand of High Density Polyethylene (HDPE)

across the globe. ChemAnalyst sourced these values from industry experts, and company representatives and externally validated through analyzing historical sales data of respective manufacturers to arrive at the overall market size. Various secondary sources such as company websites, association reports, annual reports, etc., were also studied by ChemAnalyst.

Key Target Audience:

High Density Polyethylene (HDPE) manufacturers and other stakeholders

Organizations, forums and alliances related to High Density Polyethylene (HDPE) distribution

Government bodies such as regulating authorities and policy makers

Market research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for industry stakeholders such as High Density Polyethylene (HDPE) manufacturers, customers and policy makers. The study would also help them to target the growing segments over the coming years, thereby aiding the stakeholders in taking investment decisions and facilitating their expansion.

Report Scope:

In this report, Global High Density Polyethylene (HDPE) market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Market, by Grade: Extrusion Molding, Blow Molding, Injection Molding, and Others

Market, by End-use: Packaging, Construction, Consumer Goods, Agriculture, and Others

Market, by Sales Channel: Direct Sale and Indirect Sale

Market, by Region: North America, Europe, Asia Pacific, Middle East and Africa,

and South America.

Available Customizations:

With the given market data, ChemAnalyst offers customizations according to a company's specific needs.

Contents

1. CAPACITY BY COMPANY

On our online platform, you can stay up to date with essential manufacturers and their current and future operation capacity on a practically real-time basis for High Density Polyethylene (HDPE).

2. CAPACITY BY LOCATION

To better understand the regional supply of High Density Polyethylene (HDPE) by analyzing its manufacturers' location-based capacity.

3. CAPACITY BY PROCESS

To evaluate the demand of various methods and their capacities while looking for the future growth of each process.

4. CAPACITY BY TECHNOLOGY

To better assess the manufacturing capacities with different technologies as well as understand which technology is more in demand.

5. PRODUCTION BY COMPANY

Study the historical annual production of High Density Polyethylene (HDPE) by the leading players and forecast how it will grow in the coming years.

6. DEMAND BY GRADE

Learn about the various grades of High Density Polyethylene (HDPE)- Extrusion Molding, Blow Molding, Injection Molding, and Others, and their demands. It will allow you to choose which grade to concentrate on when designing your strategy.

7. DEMAND BY END- USE

Discover which end-user industry (Packaging, Construction, Consumer Goods, Agriculture, and Others) are creating a market and the forecast for the growth of the High Density Polyethylene (HDPE) market.

8. DEMAND BY REGION

Analyzing the change in demand of High Density Polyethylene (HDPE) in different regions, i.e., North America, Europe, Asia Pacific, Middle East and Africa, and South America, that can direct you in mapping the regional demand.

9. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)

Multiple channels are used to sell High Density Polyethylene (HDPE). Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the industry's sales.

10. DEMAND-SUPPLY GAP

Determine the supply-demand gap to gain information about the trade surplus or deficiency of High Density Polyethylene (HDPE).

11. COMPANY SHARE

Figure out what proportion of the market share of High Density Polyethylene (HDPE) is currently held by leading players across the globe.

12. COUNTRY-WISE EXPORT

Get details about quantity of High Density Polyethylene (HDPE) exported by major countries.

13. COUNTRY-WISE IMPORT

Get details about quantity of High Density Polyethylene (HDPE) imported by major countries.

12. PRICING ANALYSIS & FORECAST

Analyze historical prices since 2015 & Forecast on three months rolling period for next 12 months.

Years considered for this report:

Historical Period: 2015- 2022

Base Year: 2022

Estimated Year: 2023

Forecast Period: 2024-2032

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