

High Density Polyethylene (HDPE) Market Report by Feedstock (Naphtha, Natural Gas, and Others), Application (Blow Molding, Film and Sheet, Injection Molding, Pipe and Extrusion, and Others), Manufacturing Process (Gas Phase Process, Slurry Process, Solution Process), and Region 2024-2032

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Abstracts

The global high-density polyethylene market size reached US\$ 81.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 113.7 Billion by 2032, exhibiting a growth rate (CAGR) of 3.7% during 2024-2032. 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 2024-2032. 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

1. What was the size of the global high-density polyethylene market in 2023?
2. What is the expected growth rate of the global high-density polyethylene market during 2024-2032?
3. What are the key factors driving the global high-density polyethylene market?
4. What has been the impact of COVID-19 on the global high-density polyethylene market?
5. What is the breakup of the global high-density polyethylene market based on the feedstock?
6. What is the breakup of the global high-density polyethylene market based on the application?
7. What is the breakup of the global high-density polyethylene market based on manufacturing process?
8. What are the key regions in the global high-density polyethylene market?
9. Who are the key players/companies in the global high-density polyethylene market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Properties
- 4.3 Key Industry Trends

5 GLOBAL HIGH DENSITY POLYETHYLENE MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Feedstock
- 5.5 Market Breakup by Application
- 5.6 Market Breakup by Manufacturing Process
- 5.7 Market Breakup by Region
- 5.8 Market Forecast
- 5.9 SWOT Analysis
 - 5.9.1 Overview
 - 5.9.2 Strengths
 - 5.9.3 Weaknesses
 - 5.9.4 Opportunities

5.9.5 Threats

5.10 Value Chain Analysis

5.10.1 Overview

5.10.2 Research and Development

5.10.3 Raw Material Procurement

5.10.4 Manufacturing

5.10.5 Marketing

5.10.6 Distribution

5.10.7 End-Use

5.11 Porters Five Forces Analysis

5.11.1 Overview

5.11.2 Bargaining Power of Buyers

5.11.3 Bargaining Power of Suppliers

5.11.4 Degree of Competition

5.11.5 Threat of New Entrants

5.11.6 Threat of Substitutes

5.12 Price Analysis

5.12.1 Key Price Indicators

5.12.2 Price Structure

5.12.3 Margin Analysis

6 MARKET BREAKUP BY FEEDSTOCK

6.1 Naphtha

6.1.1 Market Trends

6.1.2 Market Forecast

6.2 Natural Gas

6.2.1 Market Trends

6.2.2 Market Forecast

6.3 Others

6.3.1 Market Trends

6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

7.1 Blow Molding

7.1.1 Market Trends

7.1.2 Market Forecast

7.2 Film and Sheet

- 7.2.1 Market Trends
- 7.2.2 Market Forecast
- 7.3 Injection Molding
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Pipe and Extrusion
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Others
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast

8 MARKET BREAKUP BY MANUFACTURING PROCESS

- 8.1 Gas Phase Process
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Slurry Process
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Solution Process
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast

9 MARKET BREAKUP BY REGION

- 9.1 Asia Pacific
 - 9.1.1 Market Trends
 - 9.1.2 Market Forecast
- 9.2 North America
 - 9.2.1 Market Trends
 - 9.2.2 Market Forecast
- 9.3 Europe
 - 9.3.1 Market Trends
 - 9.3.2 Market Forecast
- 9.4 Middle East and Africa
 - 9.4.1 Market Trends
 - 9.4.2 Market Forecast
- 9.5 Latin America

9.5.1 Market Trends

9.5.2 Market Forecast

10 HIGH DENSITY POLYETHYLENE MANUFACTURING PROCESS

10.1 Product Overview

10.2 Raw Material Requirements

10.3 Manufacturing Process

10.4 Key Success and Risk Factors

11 COMPETITIVE LANDSCAPE

11.1 Market Structure

11.2 Key Players

11.3 Profiles of Key Players

11.3.1 Chevron Phillips Chemical Company LLC

11.3.2 Dynalab Corp.

11.3.3 The Dow Chemical Company

11.3.4 Exxon Mobil Corporation

11.3.5 LyondellBasell Industries N.V.

11.3.6 INEOS AG

11.3.7 Saudi Basic Industries Corporation (SABIC)

11.3.8 SINOPEC Beijing Yanshan Company

11.3.9 PetroChina Company Ltd.

11.3.10 Braskem SA

11.3.11 Reliance Industries Ltd.

11.3.12 Formosa Plastics Corporation

11.3.13 Daelim Co. Ltd

11.3.14 Prime Polymer Co. Ltd.

11.3.15 Mitsui Chemicals Inc.

List Of Tables

LIST OF TABLES

Table 1: Global: High Density Polyethylene: General Properties

Table 2: Global: High Density Polyethylene Market: Key Industry Highlights, 2023 and 2032

Table 3: Global: High Density Polyethylene Market Forecast: Breakup by Manufacturing Process (in Million US\$), 2024-2032

Table 4: Global: High Density Polyethylene Market Forecast: Breakup by Feedstock (in Million US\$), 2024-2032

Table 5: Global: High Density Polyethylene Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 6: Global: High Density Polyethylene Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: High Density Polyethylene Manufacturing: Raw Material Requirements

Table 8: Global: High Density Polyethylene Market: Competitive Structure

Table 9: Global: High Density Polyethylene Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: High Density Polyethylene Market: Major Drivers and Challenges

Figure 2: Global: High Density Polyethylene Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: High Density Polyethylene Market: Breakup by Manufacturing Process (in %), 2023

Figure 4: Global: High Density Polyethylene Market: Breakup by Feedstock (in %), 2023

Figure 5: Global: High Density Polyethylene Market: Breakup by Application (in %), 2023

Figure 6: Global: High Density Polyethylene Market: Breakup by Region (in %), 2023

Figure 7: Global: High Density Polyethylene Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 8: Global: High Density Polyethylene Industry: SWOT Analysis

Figure 9: Global: High Density Polyethylene Industry: Value Chain Analysis

Figure 10: Global: High Density Polyethylene Industry: Porter's Five Forces Analysis

Figure 11: Global: High Density Polyethylene (Naphtha) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 12: Global: High Density Polyethylene (Naphtha) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 13: Global: High Density Polyethylene (Natural Gas) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 14: Global: High Density Polyethylene (Natural Gas) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 15: Global: High Density Polyethylene (Other Types of Feedstocks) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 16: Global: High Density Polyethylene (Other Types of Feedstocks) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 17: Global: High Density Polyethylene (Application in Blow Molding) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 18: Global: High Density Polyethylene (Application in Blow Molding) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 19: Global: High Density Polyethylene (Application in Film and Sheet) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 20: Global: High Density Polyethylene (Application in Film and Sheet) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 21: Global: High Density Polyethylene (Application in Injection Molding) Market:

Sales Value (in Million US\$), 2018 & 2023

Figure 22: Global: High Density Polyethylene (Application in Injection Molding) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 23: Global: High Density Polyethylene (Application in Pipe and Extrusion) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 24: Global: High Density Polyethylene (Application in Pipe and Extrusion) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 25: Global: High Density Polyethylene (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 26: Global: High Density Polyethylene (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 27: Global: High Density Polyethylene (Gas Phase Process) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 28: Global: High Density Polyethylene (Gas Phase Process) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 29: Global: High Density Polyethylene (Slurry Process) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 30: Global: High Density Polyethylene (Slurry Process) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 31: Global: High Density Polyethylene (Solution Process) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 32: Global: High Density Polyethylene (Solution Process) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 33: Asia Pacific: High Density Polyethylene Market: Sales Value (in Million US\$), 2018 & 2023

Figure 34: Asia Pacific: High Density Polyethylene Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 35: North America: High Density Polyethylene Market: Sales Value (in Million US\$), 2018 & 2023

Figure 36: North America: High Density Polyethylene Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 37: Europe: High Density Polyethylene Market: Sales Value (in Million US\$), 2018 & 2023

Figure 38: Europe: High Density Polyethylene Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 39: Middle East and Africa: High Density Polyethylene Market: Sales Value (in Million US\$), 2018 & 2023

Figure 40: Middle East and Africa: High Density Polyethylene Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 41: Latin America: High Density Polyethylene Market: Sales Value (in Million US\$), 2018 & 2023

Figure 42: Latin America: High Density Polyethylene Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 43: High Density Polyethylene Manufacturing: Detailed Process Flow

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