

Global HMPE (High Modulus Polyethylene) Ropes Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global HMPE (High Modulus Polyethylene) Ropes market size was valued at US\$ 330 million in 2024 and is forecast to a readjusted size of USD 610 million by 2031 with a CAGR of 9.3% during review period.

HMPE is comprised of extremely long molecules (chains) of polyethylene oriented in the same direction, which results in large areas of overlap between the molecules. This overlap greatly increases the bond between the molecules and thereby, the strength of the fibre is greatly increased. When rope is manufactured using this fibre, extremely high strengths can be achieved. Dyneema® is the premium brand for High Modulus Polyethylene fibre.

HMPE (High Modulus PolyEthylene), also known as UHMWPE (Ultra High Molecular Weight PolyEthylene) or HPPE (High Performance PolyEthylene), is a polyolefin resin of very high molecular weight (mass) usually between 2 and 6 million g/mol with extremely long chains produced by gel spinning (wet or dry methods). The longer chain serves to transfer load more effectively to the polymer backbone by strengthening intermolecular interactions. This results in a very tough material, with the highest impact strength of any thermoplastic presently made.

HMPE is odorless, tasteless, and nontoxic. It is highly resistant to corrosive chemicals except oxidizing acids, has extremely low moisture absorption (Hydrophobic), very low coefficient of friction, self-lubricating and highly resistant to abrasion, in some forms being 15 times more resistant to abrasion than carbon steel. Its coefficient of friction is significantly lower than that of nylon and acetal, and is comparable to that of



polytetrafluoroethylene (PTFE, Teflon), but HMPE has better abrasion resistance than PTFE. HMPE material floats in water thus gaining another advantage over many other materials such as Polyester, Nylon, Aramids and LCP.

HMPE ropes are increasingly replacing steel and conventional fibers in the shipping and offshore businesses of oil & gas, aquaculture, wind mills and cables and lately, experimentally, in ships' cranes. These high performance ropes are stronger than steel and ~1/8 of the weight of comparable steel wires.

Global HMPE (High Modulus Polyethylene) Ropes key players include Lankhorst(WireCo), Samson, Taizhou Hongda, Bridon, etc. Global top four manufacturers hold a share over 30%.

China is the largest market, with a share over 30%, followed by Europe, and North America, both have a share about 40 percent.

In terms of product, 12 Strand is the largest segment, with a share over 45%. And in terms of application, the largest application is Ocean, followed by Leisure, Industrial, Aviation and Military, etc.

This report is a detailed and comprehensive analysis for global HMPE (High Modulus Polyethylene) Ropes market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global HMPE (High Modulus Polyethylene) Ropes market size and forecasts, in consumption value (\$ Million), sales quantity (Tonne), and average selling prices (USD/Tonne), 2020-2031

Global HMPE (High Modulus Polyethylene) Ropes market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tonne), and average selling prices (USD/Tonne), 2020-2031

Global HMPE (High Modulus Polyethylene) Ropes market size and forecasts, by Type



and by Application, in consumption value (\$ Million), sales quantity (Tonne), and average selling prices (USD/Tonne), 2020-2031

Global HMPE (High Modulus Polyethylene) Ropes market shares of main players, shipments in revenue (\$ Million), sales quantity (Tonne), and ASP (USD/Tonne), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for HMPE (High Modulus Polyethylene) Ropes

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global HMPE (High Modulus Polyethylene) Ropes market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lankhorst(WireCo), Samson, Bridon, English Braids, Marlow Ropes, Katradis, Southern Ropes, Taizhou Hongda, Jiangsu Shenyun, Hunan Zhongtai, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

HMPE (High Modulus Polyethylene) Ropes market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

3 Strand





Hunan Zhongtai

Ningbo Dacheng

Rope Technology

Juli Sling

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe HMPE (High Modulus Polyethylene) Ropes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of HMPE (High Modulus Polyethylene) Ropes, with price, sales quantity, revenue, and global market share of HMPE (High Modulus Polyethylene) Ropes from 2020 to 2025.

Chapter 3, the HMPE (High Modulus Polyethylene) Ropes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the HMPE (High Modulus Polyethylene) Ropes breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.



Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and HMPE (High Modulus Polyethylene) Ropes market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of HMPE (High Modulus Polyethylene) Ropes.

Chapter 14 and 15, to describe HMPE (High Modulus Polyethylene) Ropes sales channel, distributors, customers, research findings and conclusion.



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