

2018-2023 Global HMPE (High Modulus Polyethylene) Ropes Consumption Market Report

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Abstracts

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In this report, LP Information covers the present scenario (with the base year being 2017) and the growth prospects of global HMPE (High Modulus Polyethylene) Ropes market for 2018-2023.

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.

HMPE ropes is driven by customers' and end-users' needs for lightweight, sustainable solutions that offer extreme durability coupled with improved safety and ergonomics.

HMPE products typically replace traditional materials such as steel and aramid.

The leading companies own the advantages on better performance, more abundant product's types, better technical and impeccable after-sales service. Consequently, they take the majority of the market share of high-end market. Looking to the future years, the slow downward price trend in recent years will maintain. As competition intensifies, prices gap between different brands will go narrowing. Similarly, there will be fluctuation in gross margin.

The industry is expected to remain innovation-led, with frequent acquisitions and strategic alliances adopted as the key strategies by the players to increase their industry presence. Market stays in mature period with a clear concentration. Meanwhile, optimize product mix and further develop value-added capabilities to maximize margins. Manufacturers can take advantage of this situation by reinforcing their production units and supply-chains to avoid any delay in production turn-around-times (TAT) and supply-lead-times.

Significant and lasting barriers make entry into this market difficult. These barriers include, but are not limited to: (i) product development costs; (ii) capital requirements; (iii) intellectual property rights; (iv) regulatory requirement; and (v) Transitions' unfair methods of competition.

Despite the presence of competition problems, due to the global recovery trend is clear, investors are still optimistic about this area, the future will still have more new investment enter the field. Even so, the market is intensely competitive. The study group recommends the new entrants just having money but without technical advantage and upstream and downstream support do not to enter into this field.

Over the next five years, LPI(LP Information) projects that HMPE (High Modulus Polyethylene) Ropes will register a xx% CAGR in terms of revenue, reach US\$ xx million by 2023, from US\$ xx million in 2017.

This report presents a comprehensive overview, market shares, and growth opportunities of HMPE (High Modulus Polyethylene) Ropes market by product type, application, key manufacturers and key regions.

To calculate the market size, LP Information considers value and volume generated

from the sales of the following segments:

Segmentation by product type:

3 Strand

8 Strand

12 Strand

Others

Segmentation by application:

Industrial

Ocean

Leisure

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Spain

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The report also presents the market competition landscape and a corresponding

detailed analysis of the major vendor/manufacturers in the market. The key manufacturers covered in this report:

Lankhorst(WireCo)

Samson

Bridon

English Braids

Marlow Ropes

Katradis

Southern Ropes

Taizhou Hongda

Jiangsu Shenyun

Hunan Zhongtai

Ningbo Dacheng

Rope Technology

Juli Sling

In addition, this report discusses the key drivers influencing market growth, opportunities, the challenges and the risks faced by key manufacturers and the market as a whole. It also analyzes key emerging trends and their impact on present and future development.

RESEARCH OBJECTIVES

To study and analyze the global HMPE (High Modulus Polyethylene) Ropes consumption (value & volume) by key regions/countries, product type and

application, history data from 2013 to 2017, and forecast to 2023.

To understand the structure of HMPE (High Modulus Polyethylene) Ropes market by identifying its various subsegments.

Focuses on the key global HMPE (High Modulus Polyethylene) Ropes manufacturers, to define, describe and analyze the sales volume, value, market share, market competition landscape, SWOT analysis and development plans in next few years.

To analyze the HMPE (High Modulus Polyethylene) Ropes with respect to individual growth trends, future prospects, and their contribution to the total market.

To share detailed information about the key factors influencing the growth of the market (growth potential, opportunities, drivers, industry-specific challenges and risks).

To project the consumption of HMPE (High Modulus Polyethylene) Ropes submarkets, with respect to key regions (along with their respective key countries).

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

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