

High Modulus Low Shrinkage Polyester Yarn Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Denier (1000D 192F -1210 192F, 1300D 432F -1670 192F, 2000D 480F - 2200 640F, Others), By Type (Regular Adhesive, High Tenacity, High Count Filaments, Super Low Shrinkage, Others), By End User (Tire Cords, Conveyors, V-Belts, Hoses, Others), By Region and Competition, 2020-2030F

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Report description:

Market Overview

The Global High Modulus Low Shrinkage (HMLS) Polyester Yarn Market was valued at USD 1938.20 Million in 2024 and is projected to reach USD 2837.82 Million by 2030, growing at a CAGR of 6.76% during the forecast period. The market is witnessing steady growth due to the superior mechanical strength, thermal stability, and dimensional integrity of HMLS polyester yarn, making it a preferred material across various industrial applications. Its widespread use in the mechanical rubber goods (MRG) sector-including products like tires, hoses, conveyor belts, and V-belts-underscores its importance in reinforcing components subject to intense stress and load. Rising automobile demand, particularly in the Asia Pacific region, is fueling consumption of radial tires, thereby driving the need for Polyester Tire Cord Fabric (PTCF), which is primarily manufactured using HMLS polyester yarn. The yarn's resistance to deformation and its ability to maintain structural reliability under extreme conditions make it indispensable in high-performance and safety-critical applications.

Key Market Drivers

Rising Demand of High Modulus Low Shrinkage Polyester Yarn in Tire Cord Applications

HMLS polyester yarn plays a critical role in tire cord production, offering the tensile strength and load-bearing capacity required

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for vehicle tires. It is a key reinforcement material that enhances tire performance under dynamic road and environmental conditions. The yarn's high modulus ensures minimal elongation under stress, while its low shrinkage property allows it to retain dimensional stability during vulcanization processes. Companies such as SRF are leading providers of textile reinforcement solutions for the tire industry, supplying a comprehensive portfolio that includes Polyester Tyre Cord Fabrics, Nylon Tyre Cord Fabrics, and Chafer Fabrics. As global automotive production and infrastructure projects continue to grow, the demand for durable tire reinforcement materials such as HMLS polyester yarn is expected to rise significantly.

Key Market Challenges

Raw Material Price Volatility and Competition from Alternative Materials

The production of HMLS polyester yarn is heavily dependent on petrochemical-derived feedstocks, making it vulnerable to fluctuations in crude oil prices and supply chain disruptions. These cost fluctuations directly impact overall production costs and product pricing. In addition, manufacturers face increasing competition from alternative fibers such as other synthetics and natural materials like cotton and wool, which are sometimes preferred depending on the application. The challenge lies in maintaining cost competitiveness while preserving performance advantages. To address this, companies are exploring strategies such as supplier diversification, process optimization, and material innovation to manage volatility and improve long-term stability.

Key Market Trends

Growing Demand for Sustainable Solutions

Sustainability is becoming a critical focus in the textile and industrial yarn industries, prompting increased interest in eco-friendly alternatives. HMLS polyester yarn manufacturers are responding by incorporating recycled fibers and adopting greener production techniques. These sustainable variants reduce environmental impact while maintaining the mechanical performance required for industrial applications. Companies such as Oerlikon Barmag are at the forefront of this transition, offering advanced manufacturing systems like the EvoQuench solution, which enhances energy efficiency in industrial yarn production. This trend reflects the broader industry shift toward responsible sourcing, reduced emissions, and circular manufacturing practices.

Key Market Players

- Reliance Industries Limited
- Zhejiang Guxiandao Polyester Dope Dyed Yarn Co., Ltd
- Shinkong Synthetic Fibers Corp.
- TEXXCORE
- Hengli Group Co., Ltd.
- Ningbo Kingbird Thread & Yarn Industry Co., Ltd.
- Arville Textiles Limited
- SRF Limited
- United Raw Material Pte. Ltd.
- Zhejiang Unifull Industrial Fibre Co., Ltd

Report Scope:

In this report, the Global High Modulus Low Shrinkage Polyester Yarn Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- High Modulus Low Shrinkage Polyester Yarn Market, By Denier:

- o 1000D 192F - 1210 192F
- o 1300D 432F - 1670 192F
- o 2000D 480F - 2200 640F
- o Others

- High Modulus Low Shrinkage Polyester Yarn Market, By Type:

- o Regular Adhesive
- o High Tenacity
- o High Count Filaments
- o Super Low Shrinkage

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o Others

- High Modulus Low Shrinkage Polyester Yarn Market, By End User:

o Tire Cords

o Conveyors

o V-Belts

o Hoses

o Others

- High Modulus Low Shrinkage Polyester Yarn Market, By Region:

o Asia Pacific

□ China

□ India

□ Australia

□ Japan

□ South Korea

o Europe

□ France

□ Germany

□ Spain

□ Italy

□ United Kingdom

o North America

□ United States

□ Mexico

□ Canada

o South America

□ Brazil

□ Argentina

□ Colombia

o Middle East & Africa

□ South Africa

□ Saudi Arabia

□ UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global High Modulus Low Shrinkage Polyester Yarn Market.

Available Customizations:

Global High Modulus Low Shrinkage Polyester Yarn Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Product Overview
 - 1.1. Market Definition
 - 1.2. Scope of the Market
 - 1.2.1. Markets Covered

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- 1.2.2. Years Considered for Study
- 1.2.3. Key Market Segmentations
2. Research Methodology
 - 2.1. Objective of the Study
 - 2.2. Baseline Methodology
 - 2.3. Key Industry Partners
 - 2.4. Major Association and Secondary Sources
 - 2.5. Forecasting Methodology
 - 2.6. Data Triangulation & Validation
 - 2.7. Assumptions and Limitations
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions/Countries
 - 3.5. Overview of Market Drivers, Challenges, Trends
4. Impact of COVID-19 on Global High Modulus Low Shrinkage Polyester Yarn Market
5. Voice of Customer
6. Global High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value & Volume
 - 6.2. Market Share & Forecast
 - 6.2.1. By Denier (1000D 192F -1210 192F, 1300D 432F -1670 192F, 2000D 480F - 2200 640F, Others)
 - 6.2.2. By Type (Regular Adhesive, High Tenacity, High Count Filaments, Super Low Shrinkage, Others)
 - 6.2.3. By End User (Tire Cords, Conveyors, V-Belts, Hoses, Others)
 - 6.2.4. By Region
 - 6.2.5. By Company (2024)
 - 6.3. Market Map
7. Asia Pacific High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Value & Volume
 - 7.2. Market Share & Forecast
 - 7.2.1. By Denier
 - 7.2.2. By Type
 - 7.2.3. By End User
 - 7.2.4. By Country
 - 7.3. Asia Pacific: Country Analysis
 - 7.3.1. China High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value & Volume
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Denier
 - 7.3.1.2.2. By Type
 - 7.3.1.2.3. By End User
 - 7.3.2. India High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value & Volume

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- 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Denier
 - 7.3.2.2.2. By Type
 - 7.3.2.2.3. By End User
- 7.3.3. Australia High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value & Volume
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Denier
 - 7.3.3.2.2. By Type
 - 7.3.3.2.3. By End User
- 7.3.4. Japan High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value & Volume
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Denier
 - 7.3.4.2.2. By Type
 - 7.3.4.2.3. By End User
- 7.3.5. South Korea High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value & Volume
 - 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Denier
 - 7.3.5.2.2. By Type
 - 7.3.5.2.3. By End User
- 8. Europe High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Value & Volume
 - 8.2. Market Share & Forecast
 - 8.2.1. By Denier
 - 8.2.2. By Type
 - 8.2.3. By End User
 - 8.2.4. By Country
 - 8.3. Europe: Country Analysis
 - 8.3.1. France High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value & Volume
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Denier
 - 8.3.1.2.2. By Type
 - 8.3.1.2.3. By End User
 - 8.3.2. Germany High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value & Volume
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Denier
 - 8.3.2.2.2. By Type

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- 8.3.2.2.3. By End User
- 8.3.3. Spain High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value & Volume
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Denier
 - 8.3.3.2.2. By Type
 - 8.3.3.2.3. By End User
- 8.3.4. Italy High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value & Volume
 - 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Denier
 - 8.3.4.2.2. By Type
 - 8.3.4.2.3. By End User
- 8.3.5. United Kingdom High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value & Volume
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Denier
 - 8.3.5.2.2. By Type
 - 8.3.5.2.3. By End User
- 9. North America High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Value & Volume
 - 9.2. Market Share & Forecast
 - 9.2.1. By Denier
 - 9.2.2. By Type
 - 9.2.3. By End User
 - 9.2.4. By Country
 - 9.3. North America: Country Analysis
 - 9.3.1. United States High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value & Volume
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Denier
 - 9.3.1.2.2. By Type
 - 9.3.1.2.3. By End User
 - 9.3.2. Mexico High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value & Volume
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Denier
 - 9.3.2.2.2. By Type
 - 9.3.2.2.3. By End User
 - 9.3.3. Canada High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 9.3.3.1. Market Size & Forecast

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- 9.3.3.1.1. By Value & Volume
- 9.3.3.2. Market Share & Forecast
 - 9.3.3.2.1. By Denier
 - 9.3.3.2.2. By Type
 - 9.3.3.2.3. By End User
- 10. South America High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 10.1. Market Size & Forecast
 - 10.1.1. By Value & Volume
 - 10.2. Market Share & Forecast
 - 10.2.1. By Denier
 - 10.2.2. By Type
 - 10.2.3. By End User
 - 10.2.4. By Country
 - 10.3. South America: Country Analysis
 - 10.3.1. Brazil High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 10.3.1.1. Market Size & Forecast
 - 10.3.1.1.1. By Value & Volume
 - 10.3.1.1.2. Market Share & Forecast
 - 10.3.1.1.2.1. By Denier
 - 10.3.1.1.2.2. By Type
 - 10.3.1.1.2.3. By End User
 - 10.3.1.2. Argentina High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 10.3.2.1. Market Size & Forecast
 - 10.3.2.1.1. By Value & Volume
 - 10.3.2.2. Market Share & Forecast
 - 10.3.2.2.1. By Denier
 - 10.3.2.2.2. By Type
 - 10.3.2.2.3. By End User
 - 10.3.3. Colombia High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 10.3.3.1. Market Size & Forecast
 - 10.3.3.1.1. By Value & Volume
 - 10.3.3.2. Market Share & Forecast
 - 10.3.3.2.1. By Denier
 - 10.3.3.2.2. By Type
 - 10.3.3.2.3. By End User
 - 11. Middle East and Africa High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 11.1. Market Size & Forecast
 - 11.1.1. By Value & Volume
 - 11.2. Market Share & Forecast
 - 11.2.1. By Denier
 - 11.2.2. By Type
 - 11.2.3. By End User
 - 11.2.4. By Country
 - 11.3. MEA: Country Analysis
 - 11.3.1. South Africa High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 11.3.1.1. Market Size & Forecast
 - 11.3.1.1.1. By Value & Volume

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- 11.3.1.2. Market Share & Forecast
 - 11.3.1.2.1. By Denier
 - 11.3.1.2.2. By Type
 - 11.3.1.2.3. By End User
- 11.3.2. Saudi Arabia High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 11.3.2.1. Market Size & Forecast
 - 11.3.2.1.1. By Value & Volume
 - 11.3.2.2. Market Share & Forecast
 - 11.3.2.2.1. By Denier
 - 11.3.2.2.2. By Type
 - 11.3.2.2.3. By End User
- 11.3.3. UAE High Modulus Low Shrinkage Polyester Yarn Market Outlook
 - 11.3.3.1. Market Size & Forecast
 - 11.3.3.1.1. By Value & Volume
 - 11.3.3.2. Market Share & Forecast
 - 11.3.3.2.1. By Denier
 - 11.3.3.2.2. By Type
 - 11.3.3.2.3. By End User
- 12. Market Dynamics
 - 12.1. Drivers
 - 12.2. Challenges
- 13. Market Trends & Developments
- 14. Global High Modulus Low Shrinkage Polyester Yarn Market: SWOT Analysis
- 15. Porter's Five Forces Analysis
 - 15.1. Competition in the Industry
 - 15.2. Potential of New Entrants
 - 15.3. Power of Suppliers
 - 15.4. Power of Customers
 - 15.5. Threat of Substitute Product
- 16. Competitive Landscape
 - 16.1. Reliance Industries Limited
 - 16.1.1. Business Overview
 - 16.1.2. Products & Services
 - 16.1.3. Recent Developments
 - 16.1.4. Financials (In Case of Listed Companies)
 - 16.1.5. Key Personnel
 - 16.2. Zhejiang Guxiandao Polyester Dope Dyed Yarn Co., Ltd
 - 16.3. Shinkong Synthetic Fibers Corp.
 - 16.4. TEXXCORE
 - 16.5. Hengli Group Co., Ltd.
 - 16.6. Ningbo Kingbird Thread & Yarn Industry Co., Ltd.
 - 16.7. Arville Textiles Limited
 - 16.8. SRF Limited
 - 16.9. United Raw Material Pte. Ltd.
 - 16.10. Zhejiang Unifull Industrial Fibre Co., Ltd
- 17. Strategic Recommendations
- 18. About Us & Disclaimer

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