

# **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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## **Abstracts**

### 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 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:

1000D 192F – 1210 192F

1300D 432F – 1670 192F

2000D 480F – 2200 640F

Others

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

Regular Adhesive

High Tenacity

High Count Filaments

Super Low Shrinkage

Others

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

Tire Cords

Conveyors

V-Belts

Hoses

Others

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

Asia Pacific

China

India

Australia

Japan

South Korea

Europe

France

Germany

Spain

Italy

United Kingdom

North America

United States

Mexico

Canada

South America

Brazil

Argentina

Colombia

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).

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