

Global Biodegradable Stretch Film Market Size Study & Forecast, by Material Type, Application Method, and Regional Forecasts 2025-2035

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Abstracts

The Global Biodegradable Stretch Film Market is valued at approximately USD 1.31 billion in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 12.40% during the forecast period 2025–2035. As industries pivot towards more sustainable packaging solutions in response to regulatory mandates and shifting consumer preferences, biodegradable stretch films are rising as a pivotal innovation in eco-conscious logistics and containment. Composed of materials like PLA, PHA, and starch-based polymers, these films provide comparable functionality to their petroleum-based counterparts while drastically reducing environmental impact. Their capacity to degrade naturally under industrial composting conditions without leaving behind harmful residues makes them an ideal choice for companies aiming to fortify their ESG profiles and reduce carbon footprints.

Driven by mounting pressure from both governments and environmentally conscious consumers, the packaging industry is undergoing a green transformation—amplifying the demand for biodegradable alternatives that do not compromise performance. Biodegradable stretch films have emerged as frontrunners in this paradigm shift, particularly in sectors like food & beverage and pharmaceuticals, where product protection and sustainability go hand-in-hand. Innovations in film transparency, thickness customization, and application methods have expanded their use across pallet wrapping, bundling, and unitizing, all while maintaining tensile strength and elasticity. These materials not only offer operational advantages in transportation and storage but also align with the sustainability goals of global supply chains.

Regionally, North America is expected to hold a significant share in the biodegradable stretch film market by 2025, backed by robust regulatory frameworks encouraging the

use of biodegradable materials and a highly developed retail and logistics infrastructure. Europe, on the other hand, continues to set benchmarks for environmental stewardship, with countries like Germany and France spearheading initiatives for plastic-free packaging. However, the Asia Pacific region is poised to register the fastest growth rate throughout the forecast timeline, driven by the expanding manufacturing sector, burgeoning consumer goods industry, and government-backed green initiatives in economies such as China, India, and South Korea. The rising awareness of plastic pollution and rapid urbanization in these regions is accelerating the shift toward bio-based alternatives.

Major market player included in this report are:

BASF SE

Plascon Group

Kingfa Sci. & Tech. Co., Ltd.

Futamura Chemical Co., Ltd.

TIPA Corp Ltd

Novamont S.p.A.

Cortec Corporation

BioBag International AS

AEP Industries Inc.

RKW Group

SPhere Group

Taghleef Industries

Avery Dennison Corporation

Sigma Stretch Film

NatureWorks LLC

Global Biodegradable Stretch Film Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Material Type:

PLA

PHA

Starch-Based Films

By Transparency Type:

Transparent

Opaque

By Thickness:

Up to 15 Microns

15 to 25 Microns

Above 25 Microns

By Application Method:

Hand Stretch Film

Machine Stretch Film

By End-Use:

Food & Beverage

Pharmaceutical

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL BIODEGRADABLE STRETCH FILM MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top-Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. Key Findings

CHAPTER 3. GLOBAL BIODEGRADABLE STRETCH FILM MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping the Market (2024–2035)
- 3.2. Drivers
 - 3.2.1. Stringent Environmental Regulations on Single-Use Plastics
 - 3.2.2. Growing Demand for Sustainable Packaging in Food & Beverage and Pharma
- 3.3. Restraints
 - 3.3.1. Higher Production Cost Compared to Conventional Stretch Films
 - 3.3.2. Limited Access to Industrial Composting Infrastructure
- 3.4. Opportunities
 - 3.4.1. Advances in Bio-Polymer Formulations and Additives
 - 3.4.2. Expansion of E-commerce and Cold-Chain Logistics

CHAPTER 4. GLOBAL BIODEGRADABLE STRETCH FILM INDUSTRY ANALYSIS

- 4.1. Porter's Five Forces Model
 - 4.1.1. Bargaining Power of Buyers
 - 4.1.2. Bargaining Power of Suppliers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's Five Forces Forecast Model (2024–2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economic
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024–2025)
- 4.7. Global Pricing Analysis and Trends (2025)
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL BIODEGRADABLE STRETCH FILM MARKET SIZE & FORECASTS BY MATERIAL TYPE 2025-2035

- 5.1. Market Overview
- 5.2. Global Market Performance – Potential Analysis (2025)
- 5.3. PLA
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.3.2. Market Size Analysis, by Region, 2025–2035
- 5.4. PHA
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.4.2. Market Size Analysis, by Region, 2025–2035
- 5.5. Starch-Based Films
 - 5.5.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 5.5.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 6. GLOBAL BIODEGRADABLE STRETCH FILM MARKET SIZE &

FORECASTS BY APPLICATION METHOD 2025-2035

- 6.1. Market Overview
- 6.2. Global Market Performance – Potential Analysis (2025)
- 6.3. Hand Stretch Film
 - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.3.2. Market Size Analysis, by Region, 2025–2035
- 6.4. Machine Stretch Film
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024–2035
 - 6.4.2. Market Size Analysis, by Region, 2025–2035

CHAPTER 7. GLOBAL BIODEGRADABLE STRETCH FILM MARKET SIZE & FORECASTS BY REGION 2025-2035

- 7.1. Regional Market Snapshot
- 7.2. Top Leading & Emerging Countries
- 7.3. North America Market
 - 7.3.1. U.S. Market
 - 7.3.1.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.3.1.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.3.2. Canada Market
 - 7.3.2.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.3.2.2. Application Method Breakdown Size & Forecasts, 2025–2035
- 7.4. Europe Market
 - 7.4.1. UK Market
 - 7.4.1.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.4.1.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.4.2. Germany Market
 - 7.4.2.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.4.2.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.4.3. France Market
 - 7.4.3.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.4.3.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.4.4. Spain Market
 - 7.4.4.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.4.4.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.4.5. Italy Market
 - 7.4.5.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.4.5.2. Application Method Breakdown Size & Forecasts, 2025–2035

- 7.4.6. Rest of Europe Market
 - 7.4.6.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.4.6.2. Application Method Breakdown Size & Forecasts, 2025–2035
- 7.5. Asia Pacific Market
 - 7.5.1. China Market
 - 7.5.1.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.5.1.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.5.2. India Market
 - 7.5.2.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.5.2.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.5.3. Japan Market
 - 7.5.3.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.5.3.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.5.4. Australia Market
 - 7.5.4.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.5.4.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.5.5. South Korea Market
 - 7.5.5.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.5.5.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.5.6. Rest of Asia Pacific Market
 - 7.5.6.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.5.6.2. Application Method Breakdown Size & Forecasts, 2025–2035
- 7.6. Latin America Market
 - 7.6.1. Brazil Market
 - 7.6.1.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.6.1.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.6.2. Mexico Market
 - 7.6.2.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.6.2.2. Application Method Breakdown Size & Forecasts, 2025–2035
- 7.7. Middle East & Africa Market
 - 7.7.1. UAE Market
 - 7.7.1.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.7.1.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.7.2. Saudi Arabia Market
 - 7.7.2.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.7.2.2. Application Method Breakdown Size & Forecasts, 2025–2035
 - 7.7.3. South Africa Market
 - 7.7.3.1. Material Type Breakdown Size & Forecasts, 2025–2035
 - 7.7.3.2. Application Method Breakdown Size & Forecasts, 2025–2035

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Top Market Strategies

8.2. BASF SE

8.2.1. Company Overview

8.2.2. Key Executives

8.2.3. Company Snapshot

8.2.4. Financial Performance (Subject to Data Availability)

8.2.5. Product/Services Port

8.2.6. Recent Development

8.2.7. Market Strategies

8.2.8. SWOT Analysis

8.3. Plascon Group

8.4. Kingfa Sci. & Tech. Co., Ltd.

8.5. Futamura Chemical Co., Ltd.

8.6. TIPA Corp Ltd

8.7. Novamont S.p.A.

8.8. Cortec Corporation

8.9. BioBag International AS

8.10. AEP Industries Inc.

8.11. RKW Group

8.12. SPHERE Group

8.13. Taghleef Industries

8.14. Avery Dennison Corporation

8.15. Sigma Stretch Film

8.16. NatureWorks LLC

List Of Tables

LIST OF TABLES

Table 1. Global Biodegradable Stretch Film Market, Report Scope

Table 2. Global Biodegradable Stretch Film Market Estimates & Forecasts By Region 2024–2035

Table 3. Global Biodegradable Stretch Film Market Estimates & Forecasts By Application Method 2024–2035

Table 4. Global Biodegradable Stretch Film Market Estimates & Forecasts By Segment 2024–2035

Table 5. Global Biodegradable Stretch Film Market Estimates & Forecasts By Segment 2024–2035

Table 6. Global Biodegradable Stretch Film Market Estimates & Forecasts By Segment 2024–2035

Table 7. Global Biodegradable Stretch Film Market Estimates & Forecasts By Segment 2024–2035

Table 8. U.S. Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 9. Canada Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 10. UK Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 11. Germany Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 12. France Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 13. Spain Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 14. Italy Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 15. Rest of Europe Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 16. China Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 17. India Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 18. Japan Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 19. Australia Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

Table 20. South Korea Biodegradable Stretch Film Market Estimates & Forecasts, 2024–2035

List Of Figures

LIST OF FIGURES

- Fig 1. Global Biodegradable Stretch Film Market, Research Methodology
- Fig 2. Global Biodegradable Stretch Film Market, Market Estimation Techniques
- Fig 3. Global Market Size Estimates & Forecast Methods
- Fig 4. Global Biodegradable Stretch Film Market, Key Trends 2025
- Fig 5. Global Biodegradable Stretch Film Market, Growth Prospects 2024–2035
- Fig 6. Global Biodegradable Stretch Film Market, Porter’s Five Forces Model
- Fig 7. Global Biodegradable Stretch Film Market, PESTEL Analysis
- Fig 8. Global Biodegradable Stretch Film Market, Value Chain Analysis
- Fig 9. Biodegradable Stretch Film Market By Application Method, 2025 & 2035
- Fig 10. Biodegradable Stretch Film Market By Segment, 2025 & 2035
- Fig 11. Biodegradable Stretch Film Market By Segment, 2025 & 2035
- Fig 12. Biodegradable Stretch Film Market By Segment, 2025 & 2035
- Fig 13. Biodegradable Stretch Film Market By Segment, 2025 & 2035
- Fig 14. North America Biodegradable Stretch Film Market, 2025 & 2035
- Fig 15. Europe Biodegradable Stretch Film Market, 2025 & 2035
- Fig 16. Asia Pacific Biodegradable Stretch Film Market, 2025 & 2035
- Fig 17. Latin America Biodegradable Stretch Film Market, 2025 & 2035
- Fig 18. Middle East & Africa Biodegradable Stretch Film Market, 2025 & 2035
- Fig 19. Global Biodegradable Stretch Film Market, Company Market Share Analysis (2025)

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