

Organosheet and Semi-Finished Thermoplastic UD-Tape Laminate Market by Type (Carbon fiber, Thermoplastic resins, and Others), Application (Aerospace and Defense, Automotive, Sports and Leisure, Construction, and Others), and Region 2025-2033

Market Report | 2025-03-01 | 142 pages | IMARC Group

AVAILABLE LICENSES:

- Electronic (PDF) Single User \$3999.00
- Five User Licence \$4999.00
- Enterprisewide License \$5999.00

Report description:

The global organosheet and semi-finished thermoplastic UD-tape laminate market size reached USD 802.0 Million in 2024. Looking forward, IMARC Group expects the market to reach USD 1797.9 Million by 2033, exhibiting a growth rate (CAGR) of 8.92% during 2025-2033. The augmenting demand for lightweight materials, excellent mechanical properties exhibited by the product, and increasing adoption of electric vehicles represent some of the key factors driving the market.

Organosheet and semi-finished thermoplastic UD-tape laminate are two composite materials used in manufacturing lightweight and strong parts for various industries. Organosheet is a type of composite material made by combining thermoplastic resin and reinforcement fibers such as glass, carbon, or natural fibers. The thermoplastic resin is melted and then impregnated with the fibers, which are arranged in a specific pattern. The resulting material is then cooled and solidified to create a sheet-like form. Consequently, organosheets are commonly used in the automotive, aerospace, and construction industries for parts that require high strength, durability, and stiffness. On the other hand, a semi-finished thermoplastic UD-tape laminate is made by combining unidirectional (UD) fibers with a thermoplastic resin matrix. The UD-tapes are stacked in a specific pattern and then hot-pressed under controlled temperature and pressure to create a flat sheet. The resulting material is a lightweight, high-strength composite commonly used in the aerospace and automotive industries for parts such as structural beams and panels.

Organosheet and semi-finished thermoplastic UD-tape laminate Market Trends:

One of the primary factors driving the market is the need for lightweight materials that can reduce fuel consumption and emissions in the transportation industry. Both organosheet and semi-finished thermoplastic UD-tape laminates are significantly

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

lighter than metals and traditional composites, making them an ideal choice for applications such as structural components, body panels, and interiors of vehicles. Additionally, the demand for these materials is constantly increasing due to their excellent mechanical properties, such as high strength, stiffness and durability, making them suitable for use in high-performance applications like aerospace, defense, and sports equipment. These materials are also easy to process and can be formed into complex shapes using thermoforming and injection molding techniques. Other than this, organosheet and semi-finished thermoplastic UD-tape laminate offer corrosion resistance, good fatigue properties, and excellent chemical resistance. They are also recyclable and easily reprocessed, reducing waste and lowering the overall environmental impact, thus propelling the market growth. Besides this, the increasing adoption of electric vehicles and the growing trend toward sustainable manufacturing practices are also escalating the demand for these materials. Furthermore, the emphasis on sustainability has led to the development of innovative manufacturing processes that use recyclable and eco-friendly materials, such as organosheet and semi-finished thermoplastic UD-tape laminates, thereby creating a positive market outlook.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global organosheet and semi-finished thermoplastic UD-tape laminate market, along with forecasts at the global, regional, and country levels from 2025-2033. Our report has categorized the market based on the type and application.

Type Insights:

- Carbon fiber
- Thermoplastic resins
- Others

The report has provided a detailed breakup and analysis of the global organosheet and semi-finished thermoplastic UD-tape laminate market based on the type. This includes carbon fiber, thermoplastic resins, and others. According to the report, carbon fiber represented the largest segment.

Application Insights:

- Aerospace and Defense
- Automotive
- Sports and Leisure
- Construction
- Others

A detailed breakup and analysis of the organosheet and semi-finished thermoplastic UD-tape laminate market based on the application has also been provided in the report. This includes aerospace and defense, automotive, sports and leisure, construction, and others. According to the report, aerospace and defense accounted for the largest market share.

Regional Insights:

- North America
- United States
- Canada
- Europe
- Germany
- France

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- United Kingdom
- Italy
- Russia
- Spain
- Others
- Asia Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others
- Latin America
- Brazil
- Mexico
- Others
- Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Russia, Spain, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for organosheet and semi-finished thermoplastic UD-tape laminate. Some of the factors driving the North America organosheet and semi-finished thermoplastic UD-tape laminate market included emerging applications, Environmental regulations and sustainability, advancements in material technology, etc.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global organosheet and semi-finished thermoplastic UD-tape laminate market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Convestro AG, Jiangsu QIYI Technology Co. Ltd., Mitsubishi Chemical Advanced Materials, PGTEX China Co. Ltd., SGL Carbon SE, Sigmatex Limited, Teijin Limited, Toray TCAC Holding B.V., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:

- How has the global organosheet and semi-finished thermoplastic UD-tape laminate market performed so far, and how will it perform in the coming years?
- What are the drivers, restraints, and opportunities in the global organosheet and semi-finished thermoplastic UD-tape laminate market?
- What is the impact of each driver, restraint, and opportunity on the global organosheet and semi-finished thermoplastic UD-tape laminate market?
- What are the key regional markets?
- Which countries represent the most attractive organosheet and semi-finished thermoplastic UD-tape laminate market?
- What is the breakup of the market based on the type?
- Which is the most attractive type in the organosheet and semi-finished thermoplastic UD-tape laminate market?
- What is the breakup of the market based on the application?

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Which is the most attractive application in the organosheet and semi-finished thermoplastic UD-tape laminates market?
- What is the competitive structure of the global organosheet and semi-finished thermoplastic UD-tape laminate market?
- Who are the key players/companies in the global organosheet and semi-finished thermoplastic UD-tape laminate market?

Table of Contents:

- 1 Preface
- 2 Scope and Methodology
 - 2.1 Objectives of the Study
 - 2.2 Stakeholders
 - 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
 - 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
 - 2.5 Forecasting Methodology
- 3 Executive Summary
- 4 Introduction
 - 4.1 Overview
 - 4.2 Key Industry Trends
- 5 Global Organosheet and Semi-Finished Thermoplastic UD-Tape Laminate Market
 - 5.1 Market Overview
 - 5.2 Market Performance
 - 5.3 Impact of COVID-19
 - 5.4 Market Forecast
- 6 Market Breakup by Type
 - 6.1 Carbon Fiber
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
 - 6.2 Thermoplastic Resins
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
 - 6.3 Others
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast
- 7 Market Breakup by Application
 - 7.1 Aerospace and Defense
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
 - 7.2 Automotive
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
 - 7.3 Sports and Leisure
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
 - 7.4 Construction

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.4.1 Market Trends
- 7.4.2 Market Forecast
- 7.5 Others
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast
- 8 Market Breakup by Region
 - 8.1 North America
 - 8.1.1 United States
 - 8.1.1.1 Market Trends
 - 8.1.1.2 Market Forecast
 - 8.1.2 Canada
 - 8.1.2.1 Market Trends
 - 8.1.2.2 Market Forecast
 - 8.2 Asia-Pacific
 - 8.2.1 China
 - 8.2.1.1 Market Trends
 - 8.2.1.2 Market Forecast
 - 8.2.2 Japan
 - 8.2.2.1 Market Trends
 - 8.2.2.2 Market Forecast
 - 8.2.3 India
 - 8.2.3.1 Market Trends
 - 8.2.3.2 Market Forecast
 - 8.2.4 South Korea
 - 8.2.4.1 Market Trends
 - 8.2.4.2 Market Forecast
 - 8.2.5 Australia
 - 8.2.5.1 Market Trends
 - 8.2.5.2 Market Forecast
 - 8.2.6 Indonesia
 - 8.2.6.1 Market Trends
 - 8.2.6.2 Market Forecast
 - 8.2.7 Others
 - 8.2.7.1 Market Trends
 - 8.2.7.2 Market Forecast
 - 8.3 Europe
 - 8.3.1 Germany
 - 8.3.1.1 Market Trends
 - 8.3.1.2 Market Forecast
 - 8.3.2 France
 - 8.3.2.1 Market Trends
 - 8.3.2.2 Market Forecast
 - 8.3.3 United Kingdom
 - 8.3.3.1 Market Trends
 - 8.3.3.2 Market Forecast
 - 8.3.4 Italy
 - 8.3.4.1 Market Trends

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.3.4.2 Market Forecast
- 8.3.5 Spain
 - 8.3.5.1 Market Trends
 - 8.3.5.2 Market Forecast
- 8.3.6 Russia
 - 8.3.6.1 Market Trends
 - 8.3.6.2 Market Forecast
- 8.3.7 Others
 - 8.3.7.1 Market Trends
 - 8.3.7.2 Market Forecast
- 8.4 Latin America
 - 8.4.1 Brazil
 - 8.4.1.1 Market Trends
 - 8.4.1.2 Market Forecast
 - 8.4.2 Mexico
 - 8.4.2.1 Market Trends
 - 8.4.2.2 Market Forecast
 - 8.4.3 Others
 - 8.4.3.1 Market Trends
 - 8.4.3.2 Market Forecast
- 8.5 Middle East and Africa
 - 8.5.1 Market Trends
 - 8.5.2 Market Breakup by Country
 - 8.5.3 Market Forecast
- 9 Drivers, Restraints, and Opportunities
 - 9.1 Overview
 - 9.2 Drivers
 - 9.3 Restraints
 - 9.4 Opportunities
- 10 Value Chain Analysis
- 11 Porters Five Forces Analysis
 - 11.1 Overview
 - 11.2 Bargaining Power of Buyers
 - 11.3 Bargaining Power of Suppliers
 - 11.4 Degree of Competition
 - 11.5 Threat of New Entrants
 - 11.6 Threat of Substitutes
- 12 Price Analysis
- 13 Competitive Landscape
 - 13.1 Market Structure
 - 13.2 Key Players
 - 13.3 Profiles of Key Players
 - 13.3.1 Covestro AG
 - 13.3.1.1 Company Overview
 - 13.3.1.2 Product Portfolio
 - 13.3.1.3 Financials
 - 13.3.1.4 SWOT Analysis

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 13.3.2 Jiangsu QIYI Technology Co. LTD.
 - 13.3.2.1 Company Overview
 - 13.3.2.2 Product Portfolio
- 13.3.3 Mitsubishi Chemical Advanced Materials
 - 13.3.3.1 Company Overview
 - 13.3.3.2 Product Portfolio
 - 13.3.3.3 Financials
 - 13.3.3.4 SWOT Analysis
- 13.3.4 PGTEX China Co. Ltd
 - 13.3.4.1 Company Overview
 - 13.3.4.2 Product Portfolio
- 13.3.5 SGL Carbon SE
 - 13.3.5.1 Company Overview
 - 13.3.5.2 Product Portfolio
 - 13.3.5.3 Financials
 - 13.3.5.4 SWOT Analysis
- 13.3.6 Sigmatex Limited
 - 13.3.6.1 Company Overview
 - 13.3.6.2 Product Portfolio
- 13.3.7 Teijin Limited
 - 13.3.7.1 Company Overview
 - 13.3.7.2 Product Portfolio
 - 13.3.7.3 Financials
 - 13.3.7.4 SWOT Analysis
- 13.3.8 Toray TCAC Holding B.V.
 - 13.3.8.1 Company Overview
 - 13.3.8.2 Product Portfolio
 - 13.3.8.3 Financials
 - 13.3.8.4 SWOT Analysis

Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

**Organosheet and Semi-Finished Thermoplastic UD-Tape Laminate Market by Type
(Carbon fiber, Thermoplastic resins, and Others), Application (Aerospace and
Defense, Automotive, Sports and Leisure, Construction, and Others), and Region
2025-2033**

Market Report | 2025-03-01 | 142 pages | IMARC Group

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Electronic (PDF) Single User	\$3999.00
	Five User Licence	\$4999.00
	Enterprisewide License	\$5999.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Date

2026-03-06

Signature

A large, empty rectangular box intended for a signature.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com