

Trends, Opportunities and Competitive Analysis of the Global Composites Market

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Abstracts

The future of the composites market looks attractive with opportunities in the transportation, construction, wind energy, pipe & tank, marine, consumer goods, electrical and electronics, aerospace, and others. The composite materials market declined in 2020 due to global economic recession led by COVID-19. However, market will witness recovery in the year 2021 and it is expected to reach an estimated \$39 billion by 2026 with a CAGR of 4.5% from 2021 to 2026. The major drivers for growth in this market are increasing demand for lightweight materials in the aerospace & defense and automotive industry; corrosion and chemical resistance materials demand in construction and pipe & tank industry; electrical resistivity and high flame retardant materials demand in electrical and electronics industry.

Emerging trends, which have a direct impact on the dynamics of the composites industry, include development of low-cost carbon fibers, high performance glass fiber, and rapid cure resin system.

A total of 237 figures / charts and 51 tables are provided in this 404-page report to help in your business decisions. Sample figures with insights are shown below. To learn the scope of benefits, companies researched, and other details of the global composites market report, please download the report brochure.

The study includes the market size of composites market by end use industry, fiber type, resin type, manufacturing process, molding compound, country, and region, as follows:

Composites Market by End Use Industry (\$ Million and Million Pounds Shipment Analysis from 2015-2026)

Transportation

Marine

Wind Energy

Aerospace

Pipe & Tank

Construction

Electrical and Electronics

Consumer Goods

Others

Composites Market by Manufacturing Process (\$Million and Million Pounds Shipment Analysis from 2015-2026)

Hand Lay-up

Spray-up

Resin Infusion (RRIM, RTM, VARTM)

Filament Winding

Pultrusion

Injection Molding

Compression Molding

Prepreg Lay-up

Other

Composites Market by Molding Compound (\$ Million and Million Pounds)

SMC

BMC

Thermoplastic Compounds (SFT, LFT, GMT, CFT and Other)

Composites Market by Resin Type (\$ Million and Million Pounds)

Polyester

Epoxy

Vinyl ester

Phenolic

Thermoplastics

Composites Market by Fiber Type (\$ Million and Million Pounds Shipment Analysis from 2015-2026)

Glass fiber

Carbon fiber

Aramid fiber

Composites Market by Fiber Glass Type (\$ Million and Million Pounds)

Single End Roving

Multi End Roving

Chopped Strands

Woven Roving

Fabrics

Chopped Strand Mat

Continuous Filament Mat

Others

Composites Market by Carbon Fiber Type (\$ Million and Million Pounds)

PAN Based Carbon Fiber

PITCH Based Carbon Fiber

Composites Market by Region (\$ Million and Million Pounds Shipment Analysis from 2015-2026)

North America

Europe

Asia Pacific

ROW

Composites Market by Country (Million Pounds)

USA

Canada

Mexico

Germany

UK

France

Italy

Spain

Netherland

China

India

Japan

South Korea

Brazil

Russia

In this market, transportation, construction, pipe and tank, electrical and electronics, consumer goods, and wind energy are the major end use industries. On the basis of its comprehensive research, Lucintel forecasts that the aerospace segment is expected to show above average growth during the forecast period from 2021 to 2026.

Within the composites market, injection molding, hand layup, compression molding, spray up, filament winding, resin infusion, and prepreg layup are some of the major processes utilized to manufacture composite parts. Injection molding is expected to be the largest process in terms of value and volume in composite manufacturing because of low cycle time, low manufacturing cost, and ability to make complex shapes.

By fiber type, glass fiber, carbon fiber, and aramid fiber are the major fibers utilized to

manufacture composites parts for various end use industries. Carbon fiber is expected to show above average growth during the forecast period. Increasing penetration of carbon composites in commercial aircraft and automotive is expected to spur growth for carbon fiber over the forecast period from 2021 to 2026.

By resin type, thermoset and thermoplastic resins are used to make composites parts. In thermoset, polyester composite is expected to remain the largest market by value and volume consumption. In thermoplastic resins, polyamide (PA) is expected to remain the largest market by value and volume consumption because it is widely used in transportation, construction and consumer goods applications.

Asia Pacific is expected to remain the largest region by value and volume because of growth in construction, transportation, and the electrical and electronics segments. The major drivers for growth are increasing automotive production, high growth in construction, and infrastructure development.

Features of the Global Composites Market

Market Size Estimates: Global composites market size estimation in terms of value (\$M) and volume (M lbs) shipment.

Trend and Forecast Analysis: Market trends (2015-2020) and forecast (2021-2026) by various segments and regions.

Segmentation Analysis: Global composites market size by various segments, such by end use industry, fiber type, resin type, manufacturing process, molding compound, country, and region in terms of value and volume

Regional Analysis: Global composites market breakdown by North America, Europe, Asia Pacific, and Rest of the World.

Growth Opportunities: Analysis on growth opportunities in various end use industry, fiber type, resin type, manufacturing process, molding compound, country, and region for the composites market.

Strategic Analysis: This includes M&A, new product development, and competitive landscape for the global composites market.

Analysis of competitive intensity of the industry based on Porter's Five Forces

model.

This report answers the following 11 key questions

Q. 1. What are some of the most promising, high-growth segments in the composites market by end use industry (transportation, marine, wind energy, aerospace, pipe & tank, construction, electrical & electronics, consumer goods, and others), raw material (glass fiber, carbon fiber, aramid fiber, polyester resin, vinyl ester, phenolic, polyurethane, thermoplastic resin, filler, and others), fiber type (glass fiber composites, carbon fiber composites, and aramid fiber composites), resin type (polyester composites, epoxy composites, vinyl ester composites, phenolic composites, other thermosets, and thermoplastic composites), by molding compound (SMC, BMC, SFT, LFT, and other composites), and region (North America, Europe, APAC, and ROW)?

Q.2. Which segments will grow at a faster pace and why?

Q.3. Which region will grow at a faster pace and why?

Q.4. What are the key factors affecting market dynamics? What are the drivers, challenges, and business risks in this composites market?

Q.5. What are the business risks and competitive threats in this composites market?

Q.6. What are the emerging trends in this composites market and the reasons behind them?

Q.7. What are some of the changing demands of customers in the composites market?

Q.8. What are the new developments in the composites market? Which companies are leading these developments?

Q.9. Who are the major players in this composites market? What strategic initiatives are key players pursuing for business growth?

Q.10. What are some of the competing products in this composites market and how big of a threat do they pose for loss of market share by material or product substitution?

Q.11. What M & A activity has occurred in the last 5 years in this composites market?

Contents

1. EXECUTIVE SUMMARY

2. ABOUT THE COMPOSITES INDUSTRY

2.1: What is the Composites Industry?

2.2: Characteristics of the Composites Industry

3. COMPETITIVE ANALYSIS OF THE STEEL, ALUMINUM, PLASTICS, AND COMPOSITES INDUSTRIES

3.1: Competitive Analysis

3.2: Plastics Industry Overview

3.3: Steel Industry Overview

3.4: Aluminum Industry Overview

3.5: Composites Industry Overview

4. GLOBAL REINFORCEMENT MARKET

4.1: Functions of Fibers and Resin Materials in Composites

4.2: Global Composites Industry by Fiber Type

4.3: Global Market Size for Reinforcements

4.3.1: Glass Fiber Market Size by Product Form

4.3.2: Carbon Fiber Market by Product Form

4.3.3: Aramid Fiber Market

4.4: Market Leaders

4.4.1: Glass Fiber Market Leaders

4.4.2: Carbon Fiber Market Leaders

4.4.3: Aramid Fiber Market Leaders

5. GLOBAL RESIN MARKET

5.1: Types of Resin

5.1.1: Thermoset Resins for the Composites Industry

5.2: Price and Weight Distribution of Various Ingredients in Composites

5.2.1: Polyester Resin Applications

5.3: Resin Market

6. GLOBAL COMPOSITES INDUSTRY BY MATERIAL TYPE

- 6.1: Advanced Composites Market
- 6.2: Raw Materials Market
- 6.3: Thermoset and Thermoplastic Composites Market
- 6.4: Thermoplastic Composites Market by Product Form
 - 6.4.1: LFRT or LFT (Long Fiber Thermoplastic Composites)
 - 6.4.2: GMT
 - 6.4.3: Continuous Fiber TPCs
- 6.5: Composites Market by Molding Compound

7. GLOBAL COMPOSITES BY MARKET SEGMENT

- 7.1: Global Composites Market by Segment
- 7.2: Driving Forces for the Use of Composite Materials
- 7.3: Key Requirements in Various Market Segments
- 7.4: Transportation Industry Market Outlook and Trends
 - 7.4.1: Automotive Industry Challenges
- 7.5: Market Outlook and Trends for the Aerospace and Defense Industry
- 7.6: Market Outlook and Trends for the Construction Industry
 - 7.6.1: Composites in Bridge Applications
 - 7.6.2: Challenges in Bridge Applications
 - 7.6.3: Non-Bridge Applications
- 7.7: Pipe and Tank Industry Analysis
- 7.8: Marine Market Outlook and Industry Trends
- 7.9: Consumer Goods Market Outlook and Industry Trends
- 7.10: Electrical and Electronic Industry Outlook
- 7.11: Wind Energy

8. GLOBAL COMPOSITES MARKET BY MANUFACTURING PROCESS

- 8.1: Global Composites Market by Manufacturing Process

9. TRENDS AND FORECAST

- 9.1: Industry Challenges in Recent Years
 - 9.1.1: Energy Cost Squeeze
 - 9.1.2: Challenges of the Glass Fiber Industry
 - 9.1.3: Relative Safety

- 9.1.4: Challenge to Fabricators
- 9.2: Trends in the Global Composites Industry
 - 9.2.1: Market Trends by Region
 - 9.2.1.1: Market Trends by Application
- 9.3: Trends in the North American Composites Industry
- 9.4: Trends in the European Composites Industry
- 9.5: Trends in the Asian Composites Industry
- 9.6: Trends in the ROW Composites Industry
- 9.7: Composites Industry Forecast
- 9.8: Forecast for the North American Composites Industry
- 9.9: Forecast for the European Composites Industry
- 9.10: Forecast for the Asian Composites Industry
- 9.11: Forecast for the ROW Composites Industry
- 9.12: Trend and Forecast for Composite Manufacturing Processes

10. REGIONAL ANALYSIS

- 10.1: Composite Shipments by Region
- 10.2: Composites Consumption by Country
 - 10.2.1: Shipments in North American Countries
 - 10.2.2: Shipments in European Countries
 - 10.2.2.1: Shipments in Asia Pacific Countries
- 10.3: Composites Applications by Region
 - 10.3.1: Composites Markets in North America
 - 10.3.2: Composites Markets in Europe
 - 10.3.3: Composites Markets in Asia Pacific

11. VALUE CHAIN ANALYSIS AND INDUSTRY LEADERS

- 11.1: Value Chain Analysis
- 11.2: Industry Leaders
 - 11.2.1: Industry Leaders in Material Supplier Category
 - 11.2.2: Leaders in End Use Markets

12. MATERIAL AND TECHNOLOGY NEEDS FOR THE FUTURE COMPOSITES INDUSTRY

- 12.1: Need for Low-Cost Raw Materials
- 12.2: Resins and Fiber Materials with Higher Strain to Failure

- 12.3: Better UV and Chemical Resistant Materials
- 12.4: Low-Cost Manufacturing Process for Large and Small Parts
- 12.5: Need for High Temperature Composite Materials
- 12.6: Low Shrinkage Materials
- 12.7: Composite Materials with improved Wear and Tear Resistance
- 12.8: Damping and Noise Resistance Materials
- 12.9: Optimal Resin and Additive Systems for Closed Molding Operations
- 12.10: Product Manufacturability and Affordability
- 12.11: Flexible Gelcoats
- 12.12: Flame Resistant Materials
- 12.13: Self-Healing Materials
- 12.14: Manufacturing Process with Lower Processing Time
- 12.15: Flexible Honeycomb Core
- 12.16: Fabric Wrinkling Resistance
- 12.17: Method of Cutting Wet Prepregs
- 12.18: Need for Moisture Resistant Honeycomb Cores
- 12.19: Fast Cure Epoxy Resin

13. INNOVATIONS IN THE COMPOSITES INDUSTRY

- 13.1: Gurit's Ampreg™ Resin
- 13.2: New High Shock Resistant Carbon Fiber
- 13.3: Owens Corning's XSTRAND™ line of Fiberglass 3D Printer Filaments
- 13.4: Owens Corning's new Hybrid Glass/Carbon Fiber
- 13.5: Owens Corning's Glass-Fiber Reinforced Polymer (GFRP) Composite Rebar
- 13.6: Johns Manville's Nylon 6 Organosheets
- 13.7: Johns Manville's Glass Reinforced Solutions
- 13.8: Johns Manville's Glass Reinforced Solutions
- 13.9: Hexcel's HiTape® and HiMax™ for Aerospace
- 13.10: Hexcel's HexPly® for Wind Energy
- 13.11: Gurit's Balsaflex Lite for Wind Blades
- 13.12: Gurit's Ampreg 30 Laminating System
- 13.13: Polynt Composites: low-styrene content (lsc) unsaturated polyester resins
- 13.14: Novel Water-Insensitive Curing Systems for Bio-Fiber Reinforced Composites
- 13.15: New High Tensile Carbon Fiber
- 13.16: New Meta-Aramid Fiber
- 13.17: New Composite Toughening System
- 13.18: New Black Para-Aramid Fiber
- 13.19: PulStrand 4100 Roving

- 13.20: New Thermoplastic Textile Prepreg Flame-Retardant, High-Modulus
- 13.21: Novel Nonwovens to Increase Composite Functionality
- 13.22: Advalite - Resins for Composite Applications
- 13.23: Owens Corning's Performax Roving
- 13.24: Johns Manville's ThermoFlow 636, a New Chopped Strand Glass Fiber
- 13.25: Dow Introduced New Polyurethane Series VORAFORCE TW 1100
- 13.26: Cytec Industrial Materials has Developed New Prepreg Named MTM 23 for Automotive
- 13.27: Momenitive's EPIKOTE Binder System 620 for Automotive
- 13.28: New Two Part Epoxy Resin System by Cytec
- 13.29: Cytec Industries' Vinyl Ester Prepreg for Automotive
- 13.30: Hexcel's Epoxy Prepreg HexPly M77
- 13.31: AOC's Low-Density Sheet Molding Compound
- 13.32: PremierUV™ Sheet Molding Compound by The Composite Group
- 13.33: Core Molding Technologies' Airilite™ Ultra-Low-Density SMC
- 13.34: Globe Machine Manufacturing's Second Generation Autoclave Processing Technology
- 13.35: Magnum Venus' Mix Gun Talon-X with Enhanced Features

List Of Figures

LIST OF FIGURES

Chapter 1. Executive Summary

Figure 1.1: Porter's Five Forces Model for the Global Composites Industry from the Perspective of Composite Parts Fabricators

Chapter 2. About the Composites Industry

Figure 2.1: Classification of Raw Materials

Figure 2.2: Schematic Flow Chart of the Global Composites Industry

Chapter 3. Competitive Analysis of the Steel, Aluminum, Plastics, and Composites Industries

Figure 3.1: Global Shipments - Competing Materials (2003-2019)

Figure 3.2: Percentage Distribution of Competing Materials in Global Industries (2020) (E)

Figure 3.3: North American Domestic Shipments by Material Type (2015-2020)

Figure 3.4: Percentage Distribution of Competing Materials in North American Industry (2020) (E)

Figure 3.5: Steel, Aluminum, Plastic, and Composite Shipments on by Weight for the North American Industry (2020) (E)

Figure 3.6 Heatmap of the Composite Materials Market (2020) (E)

Figure 3.7: Trends of Global Plastic Shipments (B lbs.) (2015-2020)

Figure 3.8: Trend of Global Steel Shipment (2015-2020)

Figure 3.9: Steel Industry Breakdown by Major Segment (2020) (E)

Figure 3.10: Trends of Global Primary Aluminum Shipment (2014- 2019)

Figure 3.11: Global Aluminum Shipments by Market (2020) (E)

Chapter 4. Global Reinforcement Market

Figure 4.1: Global Composite Shipments (%) by Fiber Type (2020) (E)

Figure 4.2: Global Composite Shipments by Fiber Type (2020) (E)

Figure 4.3: Global Reinforcement Distribution by Fiber Type (2020) (E)

Figure 4.4: Global Reinforcement Distribution (M lbs.) by Fiber Type (2020) (E)

Figure 4.5: Global Reinforcement Distribution by Fiber Type (%)(2020) (E)

Figure 4.6: Global Reinforcement Distribution (\$M) by Fiber Type (2020) (E)

Figure 4.7 Composites Applications by Reinforcement Form

Figure 4.8: Trends and Forecast for Glass Fiber in the Global Composite Market (M lbs) (2015-2026)

Figure 4.9: Global Fiberglass Distribution by Type of Product Form (2020) (E)

Figure 4.10: Global Fiberglass Shipments (Mlbs.) by Type of Product Form (2020) (E)

Figure 4.11: Trends and Forecast for Carbon Fiber in the Global Composite Market (M

lbs) (2015-2026)

Figure 4.12: Carbon Fiber Shipments by Precursor Type (2020) (E)

Figure 4.13: Carbon Fiber Shipments by Precursor Type (2020) (E)

Figure 4.14: Carbon Fiber Shipments by Tow Size (M lbs.) (2020) (E)

Figure 4.15: Trends of Shipments in the Global Carbon Fiber Market (M lbs.) (2015-2020)

Figure 4.16: Trends of Shipments of the Global Carbon Fiber Market in \$M (2015-2020)

Chapter 5. Global Resin Market

Figure 5.1: Schematic Representation of Uncured Polyester Resin

Figure 5.2: Schematic Representation of Cured Polyester Resin

Figure 5.3: Schematic Representation of Uncured Vinyl Ester Resin

Figure 5.4: Schematic Representation of Cured Vinyl Ester Resin

Figure 5.5: Global Composites Market Distribution (M lbs.) by Thermoset and Thermoplastic Resin Composites in 2019

Figure 5.6: Global Composites Market Distribution (M lbs.) by Resin Type (2020) (E)

Figure 5.7: Global Composites Market Distribution (\$M) by Resin Type (2020) (E)

Figure 5.8: Global Composite Market Distribution by Composite Type (2020) (E)

Figure 5.9 Global Composites Market by Composite Type (2020) (E)

Figure 5.10: Global Composite Shipments by Resin Type (2020) (E)

Figure 5.11: Shipments (M lbs.) in the Global Composites Industry by Resin Type (2020) (E)

Figure 5.12: Shipments in the Global Composites Industry (\$M) by Resin Type (2020) (E)

Chapter 6. Global Composites Industry by Material Type

Figure 6.1: Market Share by Composite Type in the Global Composites Industry (2020) (E)

Figure 6.2: Distribution (M lbs.) by Composite Type in the Global Composites Industry (2020) (E)

Figure 6.3: Market Share by Composite Type (\$M) in the Global Composites Industry (2020) (E)

Figure 6.4: Composites Type Distribution (\$M) in the Global Composites Industry (2020) (E)

Figure 6.5: Raw Material Shipment (M lbs.) in the Global Composites Industry in 2019

Figure 6.6: Global Composites Market Breakdown (M lbs.) by Raw Material Used (2020) (E)

Figure 6.7: Raw Material Shipment (\$M) in the Global Composites Industry (2020) (E)

Figure 6.8: Raw Material Distribution in the Global Composites Industry (\$M) (2020) (E)

Figure 6.9: Global Composite Market Distribution by Resin Type (2020) (E)

Figure 6.10: Global Composite Market Shipments (M lbs.) by Resin Type (2020) (E)

- Figure 6.11: Global Composite Market Distribution by Resin Type (2020) (E)
- Figure 6.12: Global Thermoplastic Composites Breakdown by Product Form (2020) (E)
- Figure 6.13: Global Thermoplastic Composite Shipments (M lbs.) by Product Form (2020) (E)
- Figure 6.14: Global Thermoplastic Composites Breakdown (\$M) by Product Form (2020) (E)
- Figure 6.15: Global Thermoplastic Composite Shipments (\$M) by Product Form (2020) (E)
- Figure 6.16: Molding Compounds in the Global Composites Industry (2020) (E)
- Figure 6.17: Molding Compound Shipments (M lbs.) in the Global Composites Industry (2020) (E)
- Chapter 7. Global Composites by Market Segment
- Figure 7.1: Major OEMs/Molders in Various Market Segments
- Figure 7.2: Global Composite Distribution (M lbs.) by Market Segment (2020) (E)
- Figure 7.3: Global Composite Shipments by Market Segment (2020) (E)
- Figure 7.4: Global Composite Distribution by Market Segment (2020) (E)
- Figure 7.5: Global Composite Shipments (\$M) by Market Segment (2020) (E)
- Figure 7.6: Global Composites Industry by Region (2020) (E)
- Figure 7.7: Global Composite Shipments (M lbs.) by Region (2020) (E)
- Figure 7.9: Composite Distribution in the Global Transportation Industry (2020) (E)
- Figure 7.10: Composite Shipments (M lbs.) in the Global Transportation Industry (2020) (E)
- Figure 7.11: Composites in Transportation Market by Region (2020) (E)
- Figure 7.12: Composite Shipments in the Transportation Market by Region (2020) (E)
- Figure 7.13: Trends of US Light Vehicle Sales from 1991 to 2019 (Million Units)
- Figure 7.14: Trends of US Light Vehicle Sales (Thousand Units) (1991-2019)
- Figure 7.15: Trends in Composite Shipments in the Global Automotive Market (2013-2019)
- Figure 7.16: Manufacturing Process for the Global Transportation Industry (2020) (E)
- Figure 7.17: Composite Shipments (M lbs.) by Manufacturing Process for the Transportation Industry (2020) (E)
- Figure 7.19: Composite Distribution in the Global Aerospace Industry (2020) (E)
- Figure 7.20: Composite Shipments (M lbs.) in the Global Aerospace Industry (2020) (E)
- Figure 7.21: Composite Distribution by Region in the Global Aerospace Industry (2020) (E)
- Figure 7.22: Composite Consumption by Region in the Aerospace Industry (2020) (E)
- Figure 7.23: Monthly Production Rate Forecast for Major Commercial Aircraft Platforms
- Figure 7.24: Evolution of Composite Applications in Commercial Aircraft
- Figure 7.25: Material Distributions of Boeing
- Figure 7.26: Material Distribution in the Airbus A340 for Buy and Fly Cases

- Figure 7.27: Trends of Shipments in the Global Aerospace Market (\$B) (2013-2019)
- Figure 7.28: Trends of Delivery (units) by Boeing and Airbus in Commercial Aerospace
- Figure 7.29: Supply and Demand Trends of Boeing Aircraft (2002-2019)
- Figure 7.30: Supply and Demand Trends of Airbus Aircraft (2002-2019)
- Figure 7.31: Composite Distribution in the Global Construction Industry (2020) (E)
- Figure 7.32: Composite Shipments (M lbs.) in the Global Construction Industry (2020) (E)
- Figure 7.33: Construction Industry by Region in 2019
- Figure 7.34: Composite Shipments in the Construction Industry by Region (2020) (E)
- Figure 7.35: Trends in Housing Starts in the US (1978-2019)
- Figure 7.36: Trends in Annual New Home Average Prices in the US
- Figure 7.37: Construction Activity in the EU (27) (2000-2019) (Source: Eurostat)
- Figure 7.38: Trends of Deficient Bridges in US (2008-2019)
- Figure 7.39: Corrosion Market Breakdown by Type of Application
- Figure 7.40: Petroleum Tank Shipments by Material Type in North America
- Figure 7.41: Percent Comparison of Septic Tank Shipments (in Terms of Number) by Construction Material
- Figure 7.42: Percentage Distribution of Sewage Pipe Market by Type of Material
- Figure 7.43: Oil and Gas Pipe Market by Type of Material
- Figure 7.44: Composite Distribution in Global Pipe and Tank Industry (2020) (E)
- Figure 7.45: Composite Shipments (M lbs.) in the Global Pipe and Tank Industry (2020) (E)
- Figure 7.46: Composite Shipments (M lbs.) in the Global Pipe and Tank Industry by Region (2020) (E)
- Figure 7.47: Composite Shipments in the Global Pipe and Tank Industry by Region (2020) (E)
- Figure 7.48: Composites in the Global Marine Industry (2020) (E)
- Figure 7.49: Composite Shipments in the Global Marine Industry (2020) (E)
- Figure 7.50: Composite Materials Distribution by Region in the Global Marine Industry (2020) (E)
- Figure 7.51: Composite Shipments by Region in the Global Marine Industry (2020) (E)
- Figure 7.52: Trends for the US Boat Shipment (1991-2019)
- Figure 7.53: Trends for the US Personal Watercraft (PWC) Market (2001-2019)
- Figure 7.54: Trends in Regional Shipments of Composites in the Marine Industry (2015-2020)
- Figure 7.55: Composite Distribution in the Global Consumer Goods Market (2020) (E)
- Figure 7.56: Composite Shipments in the Global Consumer Goods Industry (2020) (E)
- Figure 7.57: Composite Shipments in the Global Consumer Market by Region (2020) (E)

Figure 7.58: Composite Shipments (M lbs.) by Region in the Global Consumer Goods Industry (2020) (E)

Figure 7.59: Composites in the Global Electrical/Electronic Industry (2020) (E)

Figure 7.60: Composite Shipments in the Global Electrical/Electronic Industry (2020) (E)

Figure 7.61: Composite Shipments by in the Global Electrical/Electronic Market by Region (2020) (E)

Figure 7.62: Composite Shipments in the Global Electrical/Electronics Market by Region (2020) (E)

Figure 7.63: Global PCB Trends and Forecast Market (2010- 2025)

Figure 7.64: Composites in the Global Wind Energy Industry (2020) (E)

Figure 7.65: Composite Shipments (M lbs.) in the Global Wind Energy Industry (2020) (E)

Figure 7.66: Composite Shipments in the Wind Energy Market by Region (2020)

(E)Figure 7.67: Trends in Composite Shipments in the Global Wind Energy Market (2015-2020)

Figure 7.68: Composite Shipments in the Global Wind Energy Market by Region (2020) (E)

Figure 7.69: Cumulative Installations in the Global Wind Energy Market (2000-2019)

Chapter 8. Global Composites Market by Manufacturing Process

Figure 8.1: Classification of Composite Processing Techniques

Figure 8.2: Global Composite Distribution by Manufacturing Process (2020) (E)

Figure 8.3: Global Composite Shipments (M lbs) by Manufacturing Process (2020) (E)

Figure 8.4: Global Composite Distribution by Manufacturing Process in 2018(2020) (E)

Figure 8.5: Global Composite Shipments (\$M) by Manufacturing Process (2020) (E)

Figure 8.6: Hand Lay-Up and Spray-Up Distribution by Market in the Global Composites Industry (2020) (E)

Figure 8.7: Hand Lay-Up and Spray-Up Distribution (M lbs.) by Market in the Global Composites Industry (2020) (E)

Figure 8.8: Compression Molding Distribution by Market in the Global Composites Industry (2020) (E)

Figure 8.9: Compression Molding Shipment (M lbs.) by Market in the Global Composites Industry (2020) (E)

Figure 8.10: Pultrusion Process Distribution by Market in the Global Composites Industry (2020) (E)

Figure 8.11: Pultrusion Process Distribution (M lbs) by Market in the Global Composites Industry (2020) (E)

Figure 8.12: Open and Closed Molding Distribution in the Global Composites Industry (2020) (E)

Figure 8.13: Open and Closed Molding Shipment (M lbs.) in the Global Composites

Industry (2020) (E)

Chapter 9. Trends and Forecast

Figure 9.1: Trends in Global Composite Shipments (M lbs.) (2015-2020)

Figure 9.2: Comparative Regional Growth Rates in the Composites Industry in 2019 and 2020

Figure 9.3: Trends in Wind Energy Capacity Installations (2000-2020)

Figure 9.4: Trends of the US Personal Watercraft Market (2001-2020)

Figure 9.5: Trends in the Global Composite Shipments (M lbs.) (2015-2020)

Figure 9.6: Global Composites Market (M lbs.) by Region (2015)

Figure 9.7: Global Composites Market (M lbs.) by Region (2020) (E)

Figure 9.8: Global Composites Market (\$M) by Region (2020) (E)

Figure 9.9: Global Composites Market by Region (M lbs.) (2019-2020)

Figure 9.10: Growth Rates in Various Market Segments of the Global Composites Industry (2020) (E)

Figure 9.11: Average Annual Growth Rates in Various Market Segments of the Global Composites Industry (2015-2020)

Figure 9.12: North American Composite Shipments (Million Pounds) (2015-2020)

Figure 9.13: Growth Rates in Various Market Segments of the North American Composites Industry (2020) (E)

Figure 9.14: Average Annual Growth Rates in Various Market Segments of the North American Composites Industry (2015-2020)

Figure 9.15: US Composite Shipment Trends by Market Segment (1970-2020)

Figure 9.16: Trends in the European Composite Shipments (Million Pounds) (2015-2020)

Figure 9.17: Growth Rate in Various Market Segments of the European Composites Market (2020) (E)

Figure 9.18: Average Annual Growth Rates in Various Market Segments of the European Composites Industry (2015-2020)

Figure 9.19: European Composite Shipment Trends by Market Segment (2004-2020)

Figure 9.20: Trends in the APAC Composite Shipments (M lbs.) (2015-2020)

Figure 9.21: Growth Rate in Different Market Segments in the APAC Composites Industry (M lbs.) (2020) (E)

Figure 9.22: Average Annual Growth Rates in Various Market Segments of the Asia Pacific Composites Industry (2015-2020)

Figure 9.23: External Forces Shaping the Composites Industry

Figure 9.24: US Consumer Spending by Year 2000-2020

Figure 9.25: US Quarterly Consumer Sentiment for 2010-2020 (Source: University of Michigan, Lucintel)

Figure 9.26: Trends in the US GDP (2000-2019) (Source: IMF)

- Figure 9.27: Trend and Forecast for the Regional GDP Growth Rate (Source: IMF)
- Figure 9.28: Forecast of the Global Composites Market (2021-2026)
- Figure 9.29: Global Composites Market Forecast by Region (Mlbs.) (2021-2026)
- Figure 9.30: Global Composite Shipments (M lbs.) by Region (2026)
- Figure 9.31: Global Composites Market (\$M) by Region (2026)
- Figure 9.32: Global Composites Market (\$M) by Region (2026)
- Figure 9.33: Growth Opportunities in Various Market Segments (2021-2026)
- Figure 9.34: Global Composites End Product Market Forecast by Application Segment
- Figure 9.35 Growth Forecast in the Global Composites Shipment by Market Segment (2020) (E)
- Figure 9.36: Average Annual Growth Forecast in Various Market Segments of the Global Composites Industry (2021-2026)
- Figure 9.37: Global Composite Distribution by Market Segment 2021
- Figure 9.38: Global Composite Distribution by Market Segment (2026)
- Figure 9.39: Global Composite Shipments (\$M) by Market Segment (2026)
- Figure 9.40: Average Annual Growth Forecast in Various Market Segments of the North American Composites Industry (2021-2026)
- Figure 9.41: Composite Distribution by Application in North America (2021)
- Figure 9.42: Composite Distribution by Application in the North American Market (2026)
- Figure 9.43: North American Composite Shipments (\$M) by Market Segment (2026)
- Figure 9.44: Growth Rate in Various Market Segments of the European Composites Market (2021)
- Figure 9.45: Annual Growth Rates in the Various Market Segments of the European Composites Industry (2021-2026)
- Figure 9.46: Composite Distribution by Application in the European Market (2021)
- Figure 9.47: Composite Distribution by Application in the European Market (2026)
- Figure 9.48: European Composite Shipments (\$M) by Market Segment (2026)
- Figure 9.49: Growth Rate in Different Market Segments in the APAC Composites Industry (2021)
- Figure 9.50: Average Annual Growth Forecast in Various Market Segments of the Asia Pacific Composites Industry (2021-2026)
- Figure 9.51: Composite Distribution by Application in the Asia Pacific (M lbs.) Market Segment (2021)
- Figure 9.52: Composite Distribution by Application in the Asia Pacific Market (2026)
- Figure 9.53: Composite Shipments (\$M) by Application in the APAC Composites Market (2026)
- Figure 9.54: Open and Closed Molding Shipment of the Global Composites Industry (2020) (E)
- Figure 9.55: Open and Closed Molding Distribution of the Global Composites Market

(2026)

Figure 9.56: Open and Closed Molding Shipment of the Global Composites Market

(2026)

Figure 9.57: Global Composite Distribution of Manufacturing Process (2026)

Figure 9.58: Global Composite Shipments (M lbs) by Manufacturing Process (2026)

Figure 9.59: Global Composite Distributions of Manufacturing Process by End Product Market (2026)

Figure 9.60: Global Composite Shipments (\$M) by Manufacturing Process (2026)

Chapter 10. Regional Analysis

Figure 10.1: The Global Composites Industry by Region (2020) (E)

Figure 10.2: Global Composites Industry Shipments by Region (2020) (E)

Figure 10.3: Regional Market (M lbs.) in the Global Composites Industry: 2018 vs. 2019

Figure 10.4: Comparative Composite Shipments (M lbs.) in Different Market Segments by Region (2020) (E)

Figure 10.5: Composite Shipment Distribution of Top 12 Leading Countries (2020) (E)

Figure 10.6: Composite Shipments (M lbs) of Top 12 Leading Countries of the World (2020) (E)

Figure 10.7: Composites (M lbs.) Per Capita of Top 12 Leading Countries of the World (2020) (E)

Figure 10.8: Composites Potential for Top 12 Leading Countries of the World (2020) (E)

Figure 10.9: Composite Distribution by North American Countries (2020) (E)

Figure 10.10: Composite Shipments (M lbs.) in North American Country (2020) (E)

Figure 10.11: Composite Shipments Distribution in European Countries (2020) (E)

Figure 10.12: Composite Shipments in European Countries (2020) (E)

Figure 10.13: Composites (Pounds) Per Capita in European Countries (2020) (E)

Figure 10.14: Composite Shipments Distribution in Asia Pacific Countries (2020) (E)

Figure 10.15: Composite Shipments in Asia Pacific Countries (2020) (E)

Figure 10.16: Composites (lbs.) per Capita in Asia Pacific Countries (2020) (E)

Figure 10.17: Composites Market Distribution by Application in North America (2020) (E)

Figure 10.18: Composite Shipments (M lbs.) in Various Applications in North America (2020) (E)

Figure 10.19: Composite Shipments (\$M) in Various Applications in North America (2020) (E)

Figure 10.20: European Composite Distribution by Market Segment (2020) (E)

Figure 10.21: Composite Shipments (M lbs) in Various Applications in Europe (2020) (E)

Figure 10.22: Composite Shipments (\$M) in Various Applications in Europe (2020) (E)

Figure 10.23: Composite Distribution by Application in the Asia Pacific Market (2020)

(E)

Figure 10.24: Composite Shipments (M lbs.) in Various Applications in Asia Pacific Market in (2020) (E)

Figure 10.25: Composite Shipments (\$M) in Various Applications in the Asia Pacific Market (2020) (E)

Chapter 11. Value Chain Analysis and Industry Leaders

Figure 11.1: Value Chain for the Composites Industry

Figure 11.2: Global Composites Industry Breakdown (M lbs.) by Raw Material Used (2020) (E)

Figure 11.3: Raw Material (M lbs.) Shipments in the Global Composites Industry (2020) (E)

Figure 11.4: Raw Materials (\$M) Shipments in Global Composites Industry (2020) (E)

Figure 11.5: Dollar (\$) and Gross Profit Flow Chart Through Various Nodes of the Value Chain from Raw Materials to the End Products (2020) (E)

Figure 11.6: Gross Profit (\$M) in Raw Material (Reinforcement and Resins) Market (2020) (E)

Figure 11.7: Gross Profit Distribution (%) by Type of Raw Material (2020) (E)

Figure 11.8: Market Distribution (%) by Value (\$) of the End Product

Figure 11.9: Global Composites Market Distribution by Value of End Product (2020) (E)

Figure 11.10: Gross Profit (\$M) in Various Market Segments

Figure 11.11: Gross Profit Distribution (%) by Type of Market Segment

List Of Tables

LIST OF TABLES

Chapter 1. Executive Summary

Table 1.1: Global Composites Market Parameters and Attributes – Material Perspective

Table 1.2: Global Composites Market Parameters and Attributes – End Product Market Perspective

Chapter 3. Competitive Analysis of the Steel, Aluminum, Plastics, and Composites Industries

Table 3.1: Penetration of Composites in Various Markets

Chapter 6. Global Composites Industry by Material Type

Table 6.1: Global Composite Shipments by Raw Material Type (2020) (E)

Chapter 7. Global Composites by Market Segment

Table 7.1 Impact Properties of Selected Materials

Table 7.2: Applications of Composite Materials in the Automotive Industry

Table 7.3: Emerging Automotive Applications for Composite Materials

Table 7.4: Strategies of OEMs and Tier1 Suppliers for Vertical Integration in High Volume Automotive Composites

Table 7.4: Segmented US Light Vehicle Sales (in thousands of units)

Table 7.5 Applications of Composite Materials in Aerospace Structures

Table 7.6: Evolution of Composite Material Applications at Airbus

Table 7.7 Aerospace Structures Made of Composites

Table 7.8 Selected Materials and Processes for the Airbus A380

Table 7.9: Composite Components in Aircraft Applications

Table 7.10 Structural Fabric Repair System

Chapter 8. Global Composites Market by Manufacturing Process

Table 8.1: Ranking of Manufacturing Process Based on Annual Shipment

Chapter 9. Trends and Forecast

Table 9.1: Market Trends in Global Composite Shipments (2015-2020)

Table 9.2: Average Annual Growth Rates in Various Regions of the Global Composites Industry

Table 9.3: Market Size and Annual Growth Rates in Various Segments of the Global Composites Industry (Source: Lucintel)

Table 9.4: Market Size and Annual Growth Rates in Various Market Segments of the Global Composites Industry (2015-2020) (Source: Lucintel)

Table 9.5: Trends in the North American Composites Market (M lbs) by End Use Industry (2015-2020)

Table 9.6: Trends in the North American composites Market (\$M) by end use industry

(2015-2020)

Table 9.7: Market Trends in North American Composite Shipments (2015-2020)

Table 9.8: Average Annual Growth Rates in Various Market Segments of the US Composites Industry (1970-2020) (Source: Lucintel)

Table 9.9: Trends in the European Composites Market (M lbs) by End Use Industry (2015-2020)

Table 9.10: Trends in the European Composites Market (\$M) by End Use Industry (2015-2020)

Table 9.11 Trends in the Asian Composites Market (M lbs) by End Use Industry (2015-2020)

Table 9.12 Trends and Forecast for Asian Composites Market (\$M) by End Use Industry (2015-2020)

Table 9.13 Trends in the ROW Composites Market (M lbs) by End Use Industry (2015-2020) Table 9.14 Trends in the ROW Composites Market (\$M) by End Use Industry (2015-2020) Table 9.15: Forecast for Select Markets

Table 9.16: Average Annual Growth Forecasts in Various Regions of the Global Composites Industry (2021-2026)

Table 9.17: Market Size and Annual Growth Forecasts in Various Market Segments of the Global Composites Industry (2021-2026) (Source: Lucintel)

Table 9.18: Forecast for the North American Composites Market (M lbs) by End Use Industry (2021-2026)

Table 9.19: Forecast for the North American Composites Market (\$M) by End Use Industry (2021-2026)

Table 9.20: Forecast for the European Composites Market (M lbs) by End Use Industry (2021-2026)

Table 9.21: Forecast for the European Composites Market (\$ M) by End Use Industry (2021-2026)

Table 9.22: Forecast for the Asian Composites Market (M lbs) by End Use Industry (2021-2026)

Table 9.23: Forecast for the Asian Composites Market (\$M) by End Use Industry (2021-2026)

Table 9.24: Forecast for ROW Composites Market (M lbs) by End Use Industry (2021-2026)

Table 9.25: Forecast for ROW Composites Market (\$ M) by End Use Industry (2021-2026)

Chapter 10. Regional Analysis

Table 10.1: Average Annual Growth Rates in Various Regions of the Global Composites Industry

Table 10.2: Ranking of Top 11 Countries of World in Terms of Composite Shipments

Table 10.3: Ranking of Five Leading Countries in Europe in Terms of Composite Shipments

Table 10.4: Ranking of Five Leading Countries in Asia Pacific in Terms of Composite Shipments

Table 10.5: Ranking of Five Leading Applications in the North American Composites Industry

Table 10.6: Ranking of Six Leading Market Segments in the European Composites Industry

Table 10.7: Ranking of Five Leading Applications in APAC

Chapter 11. Value Chain Analysis and Industry Leaders

Table 11.1 Financial Results of Industry Leaders in the Material Supplier Category

Table 11.2: Financial Results of Industry Leaders in Various Market Segments

Chapter 12. Material and Technology Needs for the Future Composites Industry

Table 12.1: Impact Properties of Selected Materials

Table 12.2: Maximum Continuous Use Temperatures for Various Thermosets and Thermoplastics

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