

# MARKET REPORT



Transportation Composites Market by Resin (Thermoplastic and Thermoset), Manufacturing Process, Fiber, Application (Interior, Exterior), Transportation Type (Airways, Roadways, Railways, Waterways), and Region - Global Forecast to 2025

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# Transportation Composites Market by Resin (Thermoplastic and Thermoset), Manufacturing Process, Fiber, Application (Interior, Exterior), Transportation Type (Airways, Roadways, Railways, Waterways), and Region - Global Forecast to 2025

“The transportation composites market is projected to register a CAGR of 12.5% during the forecast period.”

The global transportation composites market size is projected to grow from USD 33.2 billion in 2020 to USD 59.8 billion by 2025, at a CAGR of 12.5% between 2020 and 2025. Transportation composites are extensively used in aerospace & defense, marine, and automotive, among other industries. Composites provide superior properties, such as high abrasion resistance, wear resistance, high modulus, superb strength, enhanced stiffness, low density, excellent chemical resistance, and low creep, which make them suitable for use in automotive components, aircraft structures, interior car panels, and others. However, the global COVID-19 pandemic has forced the aircraft, automobile, and yacht manufacturers to shut down their operations, which is expected to reduce the demand for transportation composites in 2020.

“The resin transfer molding process holds the largest market share in the global transportation composites market in terms of value.”

Resin transfer molding is a vacuum-assisted resin transfer process that uses a flexible solid counter tool for surface compression. This process yields increased laminate compression, high fiber-to-resin ratio, and outstanding strength-to-weight characteristics. It is mainly used to mold components with large surface areas, complex shapes, and smooth finishes. This process is used in the production of aircraft and automotive structures, such as powertrain components and exterior components.

“Interior application is expected to dominate the market in terms of value.”

The interior application is estimated to be the largest segment of the transportation composites market during the forecast period. The roadways sector is one of the major consumers of composites in the interior application, which is primarily driven by the usage of composites in cars. The growing demand for thermoplastic composites in aircraft components owing to their superior strength and low weight is driving the market in the interior application segment. The railways segment is one of the major contributors to the growing demand for composites in the interior application segment.

“Carbon is estimated to be the fastest-growing fiber segment in terms of value.”

Carbon is the fastest-growing fiber segment, which is attributed to the increasing usage of carbon fiber composites in the automotive sector. Owing to superior properties of carbon fiber composites in comparison to glass fiber composites, the former is utilized by aerospace & defense and automotive sectors.

Carbon fiber is twice as strong and 30% lighter than glass fiber. In automotive applications, its utilization began in racing cars as it not only reduces the weight of the vehicle, but its high strength and high rigidity for the monocoque frame also ensure the driver's safety. It is used in F1 racing cars for all structural components as it also offers crash resistance.

“Roadways is projected to be the fastest-growing transportation type in terms of value.”

Roadways is expected to be the fastest-growing transportation type. Composites are used in a variety of automotive applications, including cars, military vehicles, buses, commercial vehicles, and motorsports, that include Formula 1 and touring cars. They offer various benefits, such as non-corrosiveness, non-conductivity,

flexibility, low maintenance, longevity, and design flexibility. Glass fiber composites are commonly used in automotive applications for interior and exterior components. The lightweight capabilities and high strength of composites reduce vehicle weight and fuel consumption and allow the OEMs to comply with the stringent eco-friendly regulations. Thus, there is a high demand for transportation composites in heavy vehicles. Further, due to COVID-19 and the closure of operations by leading car manufacturers, including Nissan, Ford, and Volkswagen, the demand for composites is expected to take a dip in 2020.

“Thermoplastic is expected to be the fastest-growing resin segment in terms of value.”

The main advantage of thermoplastic resins as matrix materials is that the composite formed can be reshaped and reformed, unlike thermoset resins. The composite formed is easily recyclable. Different types of thermoplastic resins are used as matrix materials in the formation of composites. Complex material shapes can be easily produced using thermoplastic composites. As they can be stored at room temperatures, they can also be used in fabricating large structures.

“APAC is the fastest-growing transportation composites market in terms of volume.”

APAC is projected to be the fastest-growing transportation composites market during the forecast period. The growth of the transportation composites market in APAC is mainly driven by the demand from the aerospace & defense, automotive, and rail industries. However, the outbreak of COVID-19 has posed a negative impact on the aerospace and automotive industries in the APAC region. For instance, China, which is the largest automobile producer in the region, registered a drop of 92% in the sales of cars in the first half of February 2020. The drop in sales of electric vehicles is expected to reduce the demand for transportation composites in the region through 2020-2021.

This study has been validated through primaries conducted with various industry experts, globally. These primary sources have been divided into the following three categories:

- By Company Type- Tier 1- 40%, Tier 2- 33%, and Tier 3- 27%
- By Designation- C Level- 50%, Director Level- 20%, and Others- 30%
- By Region- North America- 20%, Europe- 50%, APAC- 15%, Latin America-5%, MEA-10%,

The report provides a comprehensive analysis of company profiles listed below:

- Hexcel Corporation (US)
- Toray Industries, Inc. (Japan)
- Owens Corning (US)
- Gurit Holding AG (Switzerland)
- Solvay S.A. (Belgium)
- Mitsubishi Chemical Holdings Corporation (Japan)
- Teijin Limited (Japan)
- SGL Group (Germany)
- Royal DSM (Netherlands)
- Jushi Group Co., Ltd. (China)

## Research Coverage

This report covers the global transportation composites market and forecasts the market size until 2025. The report includes the market segmentation – Resin (Thermoplastic and Thermoset), Fiber (Carbon, Glass, Natural, and Others), Application (Interior, Exterior, and others), Transportation Type (Airways, Railways, Waterways, and Roadways), Manufacturing Process (Compression Molding, Injection Molding, Resin Transfer Molding, and Others), and Region (Europe, North America, APAC, Latin America, and MEA). Porter’s Five Forces analysis, along with the drivers, restraints, opportunities, and challenges, are discussed in the report. It also provides company profiles and competitive strategies adopted by the major players in the global transportation composites market.

Key benefits of buying the report:

The report will help market leaders/new entrants in this market in the following ways:

1. This report segments the global transportation composites market comprehensively and provides the closest approximations of the revenues for the overall market and the sub-segments across different verticals and regions.
2. The report helps stakeholders understand the pulse of the transportation composites market and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to improve their position in their businesses. The competitive landscape section includes the competitor ecosystem and expansion.

Reasons to buy the report:

The report will help market leaders/new entrants in this market by providing them with the closest approximations of the revenues for the overall transportation composites market and the sub-segments. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way. The report will also help stakeholders understand the pulse of the transportation composites market and provide them with information on key market drivers, restraints, challenges, and opportunities.

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# Table Of Contents for Transportation Composites Market by Resin (Thermoplastic and Thermoset), Manufacturing Process, Fiber, Application (Interior, Exterior), Transportation Type (Airways, Roadways, Railways, Waterways), and Region - Global Forecast to 2025

- TABLE OF CONTENTS1 INTRODUCTION 191.1 OBJECTIVES OF THE STUDY 191.2 MARKET DEFINITION 191.3 MARKET SCOPE 201.3.1 TRANSPORTATION COMPOSITES MARKET SEGMENTATION 201.3.2 YEARS CONSIDERED FOR THE STUDY 201.4 CURRENCY 211.5 UNIT CONSIDERED 211.6 STAKEHOLDERS 212 RESEARCH METHODOLOGY 222.1 RESEARCH DATA 222.1.1 SECONDARY DATA 232.1.1.1 Key data from secondary sources 232.1.2 PRIMARY DATA 242.1.2.1 Key data from primary sources 242.1.2.2 Breakdown of primaries 242.2 MARKET SIZE ESTIMATION 252.3 DATA TRIANGULATION 272.4 ASSUMPTIONS 283 EXECUTIVE SUMMARY 294 PREMIUM INSIGHTS 344.1 ATTRACTIVE OPPORTUNITIES IN THE TRANSPORTATION COMPOSITES MARKET 344.2 TRANSPORTATION COMPOSITES MARKET, BY TRANSPORTATION TYPE AND REGION, 2019 344.3 TRANSPORTATION COMPOSITES MARKET, BY MANUFACTURING PROCESS 354.4 TRANSPORTATION COMPOSITES MARKET, BY FIBER 354.5 TRANSPORTATION COMPOSITES MARKET, BY RESIN 364.6 TRANSPORTATION COMPOSITES MARKET, BY APPLICATION 364.7 TRANSPORTATION COMPOSITES MARKET, BY KEY COUNTRIES 375 MARKET OVERVIEW 385.1 INTRODUCTION 385.2 MARKET DYNAMICS 385.2.1 DRIVERS 395.2.1.1 Increasing use of composites in commercial aircraft 395.2.1.2 Growing demand for light-weight materials and fuel-efficient vehicles 395.2.1.3 Increasing use of natural fiber composites in automotive applications 395.2.2 RESTRAINTS 405.2.2.1 High processing and manufacturing cost 405.2.2.2 Issue related to recyclability 405.2.2.3 Declining economy due to COVID-19 405.2.3 OPPORTUNITIES 415.2.3.1 Increasing demand from emerging economies 415.2.3.2 Penetration of carbon fiber composites in new applications 415.2.3.3 Growing demand for environment-friendly EVs 415.2.4 CHALLENGES 415.2.4.1 Developing low-cost technologies 415.2.4.2 Market recovery from COVID-19 425.3 PORTER'S FIVE FORCES ANALYSIS 425.3.1 THREAT OF NEW ENTRANTS 435.3.2 THREAT OF SUBSTITUTES 435.3.3 BARGAINING POWER OF SUPPLIERS 435.3.4 BARGAINING POWER OF BUYERS 435.3.5 INTENSITY OF COMPETITIVE RIVALRY 446 MACROECONOMIC OVERVIEW AND KEY TRENDS 456.1 MACROECONOMIC OVERVIEW AND KEY TRENDS IN THE AEROSPACE INDUSTRY 456.1.1 INTRODUCTION 456.1.2 TRENDS AND FORECAST OF GDP 456.1.3 TRENDS IN AEROSPACE INDUSTRY 466.1.3.1 Disruption in the industry 466.1.3.2 Impact on customers' output & strategies to resume/improve production 476.1.3.3 Impact on customers' revenue 476.1.3.4 Most affected countries 476.1.3.5 Short-term strategies to manage cost structure and supply chains 476.1.3.6 New opportunities 486.2 MACROECONOMIC OVERVIEW AND KEY TRENDS IN THE AUTOMOTIVE INDUSTRY 486.2.1 INTRODUCTION 486.2.2 TRENDS IN AUTOMOTIVE INDUSTRY 486.2.2.1 Disruption in the industry 496.2.2.2 Impact on revenue generated from customers 496.2.2.3 Most affected countries 496.2.2.4 Short-term strategies to manage cost structure and supply chains 506.2.2.5 Impact on electric vehicle(EV) demand due to lower oil prices 506.2.3 NEW OPPORTUNITIES 506.2.3.1 Measures taken by customers 506.2.3.2 Customers' perspective on growth 507 TRANSPORTATION COMPOSITES MARKET, BY FIBER 517.1 INTRODUCTION 527.2 GLASS 537.2.1 GLASS FIBER TRANSPORTATION COMPOSITES MARKET, BY REGION 547.3 CARBON 547.3.1 CARBON FIBER TRANSPORTATION COMPOSITES MARKET, BY REGION 557.4 NATURAL 567.4.1 NATURAL FIBER TRANSPORTATION COMPOSITES MARKET, BY REGION 567.5 OTHERS 577.5.1 OTHER FIBERS-BASED TRANSPORTATION COMPOSITES MARKET, BY REGION 578 TRANSPORTATION COMPOSITES MARKET, BY RESIN 588.1 INTRODUCTION 598.2 THERMOSET 608.2.1 EPOXY 608.2.2 POLYESTER 618.2.3 VINYL ESTER 618.2.4 OTHERS 618.3 THERMOPLASTIC 638.3.1 POLYPHENYLENE SULPHIDE (PPS) 638.3.2 POLYAMIDE (PA) 638.3.3 POLYPROPYLENE (PP) 638.3.4 OTHERS 639 TRANSPORTATION COMPOSITES MARKET, BY MANUFACTURING PROCESS 659.1 INTRODUCTION 669.2 INJECTION MOLDING PROCESS 679.3 COMPRESSION MOLDING PROCESS 689.4 RESIN TRANSFER MOLDING PROCESS (RTM) 689.5 OTHERS 6810 TRANSPORTATION COMPOSITES MARKET, BY APPLICATION 6910.1 INTRODUCTION 7010.2 INTERIOR 7110.2.1 TRANSPORTATION COMPOSITES MARKET IN INTERIOR APPLICATION, BY REGION 7110.3 EXTERIOR 7210.3.1 TRANSPORTATION COMPOSITES

MARKET IN EXTERIOR APPLICATION, BY REGION 7210.4 OTHERS 7310.4.1 TRANSPORTATION COMPOSITES MARKET IN OTHER APPLICATIONS, BY REGION 7411 TRANSPORTATION COMPOSITES MARKET, BY TRANSPORTATION TYPE 7511.1 INTRODUCTION 7611.2 AIRWAYS 7711.2.1 CIVIL 7711.2.2 DEFENSE 7711.3 RAILWAYS 7911.3.1 METROS AND MONORAILS 7911.3.2 PASSENGER RAILS 7911.3.3 HIGH SPEED AND BULLET TRAINS 7911.4 WATERWAYS 8111.4.1 POWERBOAT 8111.4.2 SAILBOAT 8111.4.3 CRUISE SHIP 8111.4.4 OTHERS 8111.5 ROADWAYS 8311.5.1 AUTOMOTIVE 8311.5.2 RECREATIONAL VEHICLES 8311.5.3 BUS, TRUCKS, AND OTHER HEAVY VEHICLES 8412 TRANSPORTATION COMPOSITES MARKET, BY REGION 8612.1 INTRODUCTION 8712.1.1 TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION 8812.2 NORTH AMERICA 8912.2.1 NORTH AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 9012.2.2 NORTH AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY 9012.2.2.1 US 9112.2.2.1.1 US: TRANSPORTATION COMPOSITES MARKET SIZE 9112.2.2.2 Canada 9212.2.2.2.1 CANADA: TRANSPORTATION COMPOSITES MARKET SIZE 9212.3 EUROPE 9312.3.1 EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 9412.3.2 EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY 9512.3.2.1 France 9612.3.2.1.1 FRANCE: TRANSPORTATION COMPOSITES MARKET SIZE 9612.3.2.2 Germany 9712.3.2.2.1 GERMANY: TRANSPORTATION COMPOSITES MARKET SIZE 9712.3.2.3 UK 9812.3.2.3.1 UK: TRANSPORTATION COMPOSITES MARKET SIZE 9812.3.2.4 Italy 9912.3.2.4.1 ITALY: TRANSPORTATION COMPOSITES MARKET SIZE 9912.3.2.5 Spain 10012.3.2.5.1 SPAIN: TRANSPORTATION COMPOSITES MARKET SIZE 10012.3.2.6 Russia 10112.3.2.6.1 RUSSIA: TRANSPORTATION COMPOSITES MARKET SIZE 10112.3.2.7 Rest of Europe 10212.3.2.7.1 REST OF EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE 10212.4 APAC 10312.4.1 APAC: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 10412.4.2 APAC: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY 10512.4.2.1 Japan 10512.4.2.1.1 JAPAN: TRANSPORTATION COMPOSITES MARKET SIZE 10612.4.2.2 China 10712.4.2.2.1 CHINA: TRANSPORTATION COMPOSITES MARKET SIZE 10712.4.2.3 South Korea 10812.4.2.3.1 SOUTH KOREA: TRANSPORTATION COMPOSITES MARKET SIZE 10812.4.2.4 India 10912.4.2.4.1 INDIA: TRANSPORTATION COMPOSITES MARKET SIZE 10912.4.2.5 Rest of APAC 11012.4.2.5.1 REST OF APAC: TRANSPORTATION COMPOSITES MARKET SIZE 11012.5 MEA 11112.5.1 MEA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 11112.5.2 MEA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY 11212.5.2.1 Saudi Arabia 11212.5.2.1.1 SAUDI ARABIA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 11212.5.2.2 UAE 11312.5.2.2.1 UAE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 11312.5.2.3 Rest of MEA 11412.5.2.3.1 REST OF MEA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 11412.6 LATIN AMERICA 11512.6.1 LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 11512.6.2 LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY 11612.6.2.1 Brazil 11712.6.2.1.1 BRAZIL: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 117 12.6.2.2 Mexico 11812.6.2.2.1 MEXICO: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 11812.6.2.3 Rest of Latin America 11912.6.2.3.1 REST OF LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE 11913 COMPETITIVE LANDSCAPE 12013.1 INTRODUCTION 12013.2 COMPETITIVE LEADERSHIP MAPPING 12113.2.1 DYNAMIC DIFFERENTIATORS 12113.2.2 INNOVATORS 12113.2.3 VISIONARY LEADERS 12113.2.4 EMERGING COMPANIES 12113.3 STRENGTH OF PRODUCT PORTFOLIO 12313.4 BUSINESS STRATEGY EXCELLENCE 12313.5 MARKET RANKING 12413.6 COMPETITIVE SCENARIO 12413.6.1 NEW PRODUCT DEVELOPMENT 12413.6.2 PARTNERSHIP 12613.6.3 JOINT VENTURE AND MERGER & ACQUISITION 12813.6.4 EXPANSION 13014 COMPANY PROFILES 132(Business Overview, Products Offered, Recent Developments, SWOT Analysis, Winning Imperatives, Development and Growth Strategies, Threat from Competition, Right to Win)\*14.1 HEXCEL CORPORATION 13214.2 TORAY INDUSTRIES INC. 13614.3 TEIJIN LIMITED 14014.4 SOLVAY 14414.5 MITSUBISHI CHEMICAL HOLDINGS CORPORATION 14914.6 GURIT HOLDING AG 15314.7 JUSHI GROUP 15514.8 SGL GROUP 15714.9 OWENS CORNING 16014.10 ROYAL DSM 16214.11 OTHER COMPANIES 16414.11.1 LEE AEROSPACE 16414.11.2 NORCO COMPOSITES & GRP 16414.11.3 BOMBARDIER 16414.11.4 LOCKHEED MARTIN 16414.11.5 FEADSHIP 16414.11.6 BOEING 16514.11.7 ALSTOM 16514.11.8 KAWASAKI HEAVY INDUSTRIES, LTD. 16514.11.9 MAGNA INTERNATIONAL INC. 16514.11.10 AIRBUS 165\*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, Winning Imperatives, Development and Growth Strategies, Threat from Competition, Right to Win might not be captured in case of unlisted companies.15 APPENDIX 16615.1 DISCUSSION GUIDE 16615.2 KNOWLEDGE STORE: MARKET SAND MARKETS SUBSCRIPTION PORTAL 16815.3 AVAILABLE CUSTOMIZATIONS 17015.4 RELATED REPORTS 17015.5 AUTHOR DETAILS 171



# List Of Tables in Transportation Composites Market by Resin (Thermoplastic and Thermoset), Manufacturing Process, Fiber, Application (Interior, Exterior), Transportation Type (Airways, Roadways, Railways, Waterways), and Region - Global Forecast to 2025

## LIST OF TABLES

TABLE 1 ANNUAL PERCENTAGE CHANGE OF GDP, BY REGION, APRIL 2020 45

TABLE 2 NUMBER OF AIRPLANE DELIVERIES BY MANUFACTURERS, 2019 46

TABLE 3 MOTOR VEHICLE PRODUCTION, BY COUNTRY, 2019 48

TABLE 4 TRANSPORTATION COMPOSITES MARKET SIZE, BY FIBER, 2018-2025 (KILOTON) 52

TABLE 5 TRANSPORTATION COMPOSITES MARKET SIZE, BY FIBER,  
2018-2025 (USD MILLION) 53

TABLE 6 GLASS FIBER TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION,  
2018-2025 (KILOTON) 54

TABLE 7 GLASS FIBER TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION,  
2018-2025 (USD MILLION) 54

TABLE 8 CARBON FIBER TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION,  
2018-2025 (KILOTON) 55

TABLE 9 CARBON FIBER TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION,  
2018-2025 (USD MILLION) 55

TABLE 10 NATURAL FIBER TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION, 2018-2025 (KILOTON) 56

TABLE 11 NATURAL FIBER TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION, 2018-2025 (USD MILLION)  
56

TABLE 12 OTHER FIBERS-BASED TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION, 2018-2025  
(KILOTON) 57

TABLE 13 OTHER FIBERS-BASED TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION, 2018-2025 (USD  
MILLION) 57

TABLE 14 TRANSPORTATION COMPOSITES MARKET SIZE, BY RESIN,  
2018-2025 (USD MILLION) 59

TABLE 15 TRANSPORTATION COMPOSITES MARKET SIZE, BY RESIN, 2018-2025 (KILOTON) 60

TABLE 16 THERMOSET TRANSPORTATION COMPOSITES MARKET SIZE, BY RESIN TYPE, 2018-2025 (USD MILLION)

- TABLE 17 THERMOSET TRANSPORTATION COMPOSITES MARKET SIZE, BY RESIN TYPE, 2018–2025 (KILOTON) 62
- TABLE 18 THERMOPLASTIC TRANSPORTATION COMPOSITES MARKET SIZE, BY RESIN TYPE, 2018–2025 (USD MILLION) 64
- TABLE 19 THERMOPLASTIC TRANSPORTATION COMPOSITES MARKET SIZE, BY RESIN TYPE, 2018–2025 (KILOTON) 64
- TABLE 20 TRANSPORTATION COMPOSITES MARKET SIZE, BY MANUFACTURING PROCESS, 2018–2025 (USD MILLION) 66
- TABLE 21 TRANSPORTATION COMPOSITES MARKET SIZE, BY MANUFACTURING PROCESS, 2018–2025 (KILOTON) 67
- TABLE 22 TRANSPORTATION COMPOSITES MARKET SIZE, BY APPLICATION, 2018–2025 (KILOTON) 70
- TABLE 23 TRANSPORTATION COMPOSITES MARKET SIZE, BY APPLICATION, 2018–2025 (USD MILLION) 71
- TABLE 24 TRANSPORTATION COMPOSITES MARKET SIZE IN INTERIOR APPLICATION, BY REGION, 2018–2025 (KILOTON) 71
- TABLE 25 TRANSPORTATION COMPOSITES MARKET SIZE IN INTERIOR APPLICATION, 2018–2025 (USD MILLION) 72
- TABLE 26 TRANSPORTATION COMPOSITES MARKET SIZE IN EXTERIOR APPLICATION, BY REGION, 2018–2025 (KILOTON) 72
- TABLE 27 TRANSPORTATION COMPOSITES MARKET SIZE IN EXTERIOR APPLICATION, BY REGION, 2018–2025 (USD MILLION) 73
- TABLE 28 TRANSPORTATION COMPOSITES MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2018–2025 (KILOTON) 74
- TABLE 29 TRANSPORTATION COMPOSITES MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2018–2025 (USD MILLION) 74
- TABLE 30 TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018–2025 (USD MILLION) 76
- TABLE 31 TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018–2025 (KILOTON) 76
- TABLE 32 TRANSPORTATION COMPOSITES MARKET SIZE IN AIRWAYS, BY SUB-TYPE, 2018–2025 (USD MILLION) 77
- TABLE 33 TRANSPORTATION COMPOSITES MARKET SIZE IN AIRWAYS, BY SUB-TYPE,

2018-2025 (KILOTON) 78

TABLE 34 TRANSPORTATION COMPOSITES MARKET SIZE IN AIRWAYS, BY REGION,

2018-2025 (USD MILLION) 78

TABLE 35 TRANSPORTATION COMPOSITES MARKET SIZE IN IN AIRWAYS, BY REGION,

2018-2025 (KILOTON) 78

TABLE 36 TRANSPORTATION COMPOSITES MARKET SIZE IN RAILWAYS, BY SUB-TYPE,

2018-2025 (USD MILLION) 79

TABLE 37 TRANSPORTATION COMPOSITES MARKET SIZE IN RAILWAYS, BY SUB-TYPE,

2018-2025 (KILOTON) 80

TABLE 38 TRANSPORTATION COMPOSITES MARKET SIZE IN RAILWAYS, BY REGION,

2018-2025 (USD MILLION) 80

TABLE 39 TRANSPORTATION COMPOSITES MARKET SIZE IN RAILWAYS, BY REGION,

2018-2025 (KILOTON) 80

TABLE 40 TRANSPORTATION COMPOSITES MARKET SIZE IN WATERWAYS, BY SUB-TYPE, 2018-2025 (USD MILLION) 82

TABLE 41 TRANSPORTATION COMPOSITES MARKET SIZE IN WATERWAYS, BY SUB-TYPE, 2018-2025 (KILOTON) 82

TABLE 42 TRANSPORTATION COMPOSITES MARKET SIZE IN WATERWAYS, BY REGION, 2018-2025 (USD MILLION) 82

TABLE 43 TRANSPORTATION COMPOSITES MARKET SIZE IN IN WATERWAYS, BY REGION, 2018-2025 (KILOTON) 83

TABLE 44 TRANSPORTATION COMPOSITES MARKET SIZE IN ROADWAYS, BY SUB-TYPE, 2018-2025 (USD MILLION) 84

TABLE 45 TRANSPORTATION COMPOSITES MARKET SIZE IN ROADWAYS, BY SUB-TYPE, 2018-2025 (KILOTON) 84

TABLE 46 TRANSPORTATION COMPOSITES MARKET SIZE IN ROADWAYS, BY REGION,

2018-2025 (USD MILLION) 84

TABLE 47 TRANSPORTATION COMPOSITES MARKET SIZE IN ROADWAYS, BY REGION,

2018-2025 (KILOTON) 85

TABLE 48 TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION,

2018-2025 (USD MILLION) 88

TABLE 49 TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION, 2018-2025 (KILOTON) 88

TABLE 50 NORTH AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE,

BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 90

TABLE 51 NORTH AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 90

TABLE 52 NORTH AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY, 2018-2025 (USD  
MILLION) 90

TABLE 53 NORTH AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION, 2018-2025 (KILOTON) 91

TABLE 54 US: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 91

TABLE 55 US: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON)  
91

TABLE 56 CANADA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 92

TABLE 57 CANADA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(KILOTON) 92

TABLE 58 EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 94

TABLE 59 EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE (KILOTON) 94

TABLE 60 EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY,  
2018-2025 (USD MILLION) 95

TABLE 61 EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE, BY REGION,  
2018-2025 (KILOTON) 95

TABLE 62 FRANCE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 96

TABLE 63 FRANCE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(KILOTON) 96

TABLE 64 GERMANY: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(USD MILLION) 97

TABLE 65 GERMANY: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(KILOTON) 97

TABLE 66 UK: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 98

TABLE 67 UK: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON)  
98

TABLE 68 ITALY: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 99

TABLE 69 ITALY: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(KILOTON) 99

TABLE 70 SPAIN: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 100

TABLE 71 SPAIN: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 100

TABLE 72 RUSSIA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025(USD MILLION) 101

TABLE 73 RUSSIA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025(KILOTON) 101

TABLE 74 REST OF EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 102

TABLE 75 REST OF EUROPE: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 102

TABLE 76 APAC: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 104

TABLE 77 APAC: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 ((KILOTON) 104

TABLE 78 APAC: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY,  
2018-2025 (USD MILLION) 105

TABLE 79 APAC: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY,  
2018-2025 (KILOTON) 105

TABLE 80 JAPAN: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 106

TABLE 81 JAPAN: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 106

TABLE 82 CHINA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 107

TABLE 83 CHINA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 107

TABLE 84 SOUTH KOREA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 108

TABLE 85 SOUTH KOREA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 108

TABLE 86 INDIA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 109

TABLE 87 INDIA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 109

TABLE 88 REST OF APAC: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 110



TABLE 89 REST OF APAC: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 110

TABLE 90 MEA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 111

TABLE 91 MEA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(KILOTON) 111

TABLE 92 MEA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY,  
2018-2025 (USD MILLION) 112

TABLE 93 MEA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY,  
2018-2025 (KILOTON) 112

TABLE 94 SAUDI ARABIA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 112

TABLE 95 SAUDI ARABIA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 113

TABLE 96 UAE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 113

TABLE 97 UAE: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(KILOTON) 114

TABLE 98 REST OF MEA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 114

TABLE 99 REST OF MEA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 115

TABLE 100 LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 115

TABLE 101 LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE,  
BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 116

TABLE 102 LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY, 2018-2025 (USD  
MILLION) 116

TABLE 103 LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON)  
116

TABLE 104 BRAZIL: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD  
MILLION) 117

TABLE 105 BRAZIL: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025  
(KILOTON) 117

TABLE 106 MEXICO: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD

MILLION) 118

TABLE 107 MEXICO: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 118

TABLE 108 REST OF LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (USD MILLION) 119

TABLE 109 REST OF LATIN AMERICA: TRANSPORTATION COMPOSITES MARKET SIZE, BY TRANSPORTATION TYPE, 2018-2025 (KILOTON) 119

# List Of Figures, Charts and Diagrams in Transportation Composites Market by Resin (Thermoplastic and Thermoset), Manufacturing Process, Fiber, Application (Interior, Exterior), Transportation Type (Airways, Roadways, Railways, Waterways), and Region - Global Forecast to 2025

## LIST OF FIGURES

FIGURE 1 TRANSPORTATION COMPOSITES MARKET: RESEARCH DESIGN 22

FIGURE 2 THE FOLLOWING DEMAND ESTIMATION METHOD HAS BEEN APPLIED FOR MARKET NUMBER ESTIMATION OF TRANSPORTATION COMPOSITES 25

FIGURE 3 THE FOLLOWING METHODOLOGY FOR “SUPPLY-SIDE” SIZING OF THE TRANSPORTATION COMPOSITES MARKET HAS BEEN USED 26

FIGURE 4 TRANSPORTATION COMPOSITES MARKET: DATA TRIANGULATION 27

FIGURE 5 AIRWAYS SEGMENT DOMINATES THE TRANSPORTATION COMPOSITES MARKET 30

FIGURE 6 CARBON FIBER SEGMENT ACCOUNTS FOR THE LARGEST MARKET SHARE 30

FIGURE 7 THERMOSET RESIN SEGMENT ACCOUNTS FOR LARGER MARKET SHARE 31

FIGURE 8 OTHER MANUFACTURING PROCESSES SEGMENT DOMINATES THE MARKET 31

FIGURE 9 INTERIOR APPLICATION LEADS THE TRANSPORTATION COMPOSITES MARKET 32

FIGURE 10 US IS THE LARGEST TRANSPORTATION COMPOSITES MARKET GLOBALLY 32

FIGURE 11 EUROPE TO BE THE FASTEST-GROWING REGION IN THE GLOBAL TRANSPORTATION COMPOSITES MARKET 33

FIGURE 12 HIGH DEMAND FROM ROADWAYS SEGMENT TO DRIVE THE MARKET 34

FIGURE 13 NORTH AMERICA AND ROADWAYS SEGMENT ACCOUNTED FOR THE LARGEST SHARES 34

FIGURE 14 INJECTION MOLDING SEGMENT TO LEAD THE TRANSPORTATION COMPOSITES MARKET 35

FIGURE 15 GLASS FIBER ACCOUNTS FOR THE LARGEST SHARE OF THE TRANSPORTATION COMPOSITES MARKET 35

FIGURE 16 THERMOSET RESIN DOMINATES THE TRANSPORTATION COMPOSITES MARKET 36

FIGURE 17 INTERIOR SEGMENT IS THE MAJOR APPLICATION OF TRANSPORTATION COMPOSITES 36

FIGURE 18 CHINA TO REGISTER THE HIGHEST CAGR IN THE TRANSPORTATION COMPOSITES MARKET	37
FIGURE 19 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN THE TRANSPORTATION COMPOSITES MARKET	38
FIGURE 20 PORTER'S FIVE FORCES ANALYSIS OF TRANSPORTATION COMPOSITES MARKET	42
FIGURE 21 GLASS FIBER TO DOMINATE THE TRANSPORTATION COMPOSITES MARKET	52
FIGURE 22 APAC TO CREATE THE HIGHEST DEMAND FOR TRANSPORTATION COMPOSITES	53
FIGURE 23 THERMOSET RESIN SEGMENT TO DOMINATE THE TRANSPORTATION COMPOSITES MARKET	59
FIGURE 24 DEMAND FOR EPOXY RESIN IS THE HIGHEST	61
FIGURE 25 RESIN TRANSFER MOLDING PROCESS TO LEAD THE TRANSPORTATION COMPOSITES MARKET	66
FIGURE 26 INTERIOR APPLICATION TO LEAD THE TRANSPORTATION COMPOSITES MARKET	70
FIGURE 27 AIRWAYS TO DOMINATE THE TRANSPORTATION COMPOSITES MARKET	76
FIGURE 28 GERMANY TO REGISTER THE HIGHEST GROWTH RATE DURING THE FORECAST PERIOD	87
FIGURE 29 NORTH AMERICA: TRANSPORTATION COMPOSITES MARKET SNAPSHOT	89
FIGURE 30 EUROPE: TRANSPORTATION COMPOSITES MARKET SNAPSHOT	93
FIGURE 31 APAC: TRANSPORTATION COMPOSITES MARKET SNAPSHOT	103
FIGURE 32 COMPANIES ADOPTED PARTNERSHIP AS KEY GROWTH STRATEGY BETWEEN 2016 AND 2019	120
FIGURE 33 TRANSPORTATION COMPOSITES MARKET: COMPETITIVE LEADERSHIP MAPPING, 2019	122
FIGURE 34 PRODUCT PORTFOLIO ANALYSIS OF TOP PLAYERS IN TRANSPORTATION COMPOSITES MARKET	123
FIGURE 35 BUSINESS STRATEGY EXCELLENCE OF TOP PLAYERS IN TRANSPORTATION COMPOSITES MARKET	123
FIGURE 36 HEXCEL CORPORATION: COMPANY SNAPSHOT	132
FIGURE 37 HEXCEL CORPORATION: SWOT ANALYSIS	134
FIGURE 38 TORAY INDUSTRIES INC.: COMPANY SNAPSHOT	136
FIGURE 39 TORAY INDUSTRIES INC.: SWOT ANALYSIS	138
FIGURE 40 TEIJIN LIMITED: COMPANY SNAPSHOT	140
FIGURE 41 TEIJIN LIMITED.: SWOT ANALYSIS	142
FIGURE 42 SOLVAY: COMPANY SNAPSHOT	144

FIGURE 43 SOLVAY: SWOT ANALYSIS 147

FIGURE 44 MITSUBISHI CHEMICAL HOLDINGS CORPORATION: COMPANY SNAPSHOT 149

FIGURE 45 MITSUBISHI CHEMICAL HOLDINGS CORPORATION: SWOT ANALYSIS 151

FIGURE 46 GURIT HOLDING AG: COMPANY SNAPSHOT 153

FIGURE 47 SGL GROUP: COMPANY SNAPSHOT 157

FIGURE 48 OWENS CORNING: COMPANY SNAPSHOT 160

FIGURE 49 ROYAL DSM: COMPANY SNAPSHOT 162



# How to Buy...

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