

Biocomposites Market by Fiber Type (Wood Fiber and Non-wood Fiber), Polymer Type (Synthetic and Natural), Product (Hybrid and Green), End-use Industries (Building & Construction, Transportation, and Consumer Goods) and Region - Global Forecast to 2026

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Abstracts

The global biocomposites market size is projected to grow from USD 24.4 billion in 2021 to USD 51.2 billion by 2026, at a CAGR of 16.0% between 2021 and 2026.

Biocomposite is a material in which at least one of the raw materials utilized (fiber or polymer) is obtained through natural sources. Biocomposites are characterized by the fact that the petrochemical polymer is replaced with a plant-based polymer, and the reinforcement is a natural fiber, such as flax, hemp, kenaf, jute, and sisal.

Biocomposites are biodegradable and resist impact, moisture, and mildew and dimensional stability, resulting in low maintenance cost and a long product life cycle.

These properties of biocomposites make them suitable for use in different end-use industries, such as transportation, sports & leisure goods, medical, building & construction, consumer goods, and electricals & electronics.

However, global pandemic COVID-19 has forced the automotive, building & construction material, and consumer goods manufacturers to shut down their operations which resulted into decreased demand for biocomposites in 2020.

“Wood fiber composites are the fastest-growing fiber type of biocomposites market in terms of value.”

Wood fiber composites is the fastest-growing fiber type, in terms of both volume and

value during forecasted years. These biocomposites are produced in the form of decking, railings, balusters, fences, and others. Wood fiber composites are less expensive than non-wood fiber composites. These are used in applications, such as residential, commercial establishments, pool-side area, observatory deck, and jetties. These are some of the factors driving the demand for wood fiber composites during the forecast period.

“Natural-polymer based biocomposites is the fastest-growing polymer type of biocomposites, in terms of value.”

Natural polymers are obtained from a variety of sources, including plants and recycled plastics. They are an emerging product, which is expected to decrease the dependency on petroleum polymers. Natural polymers have the potential to increase their penetration in different end-use industries due to their favorable properties. Increasing government focus on increasing the use of environmentally-friendly products instead of petroleum-based products is a major driver for natural polymer based composites.

“Hybrid biocomposites is the fastest-growing product type of biocomposites, in terms of value.”

The hybrid composites product segment is the fastest-growing product segment in the global biocomposites market in terms of value during the forecasted period, backed by the strong demand for biocomposites across the globe. This high market share is attributed to their good fiber-polymer adhesion that results in low moisture absorption, high strength, and dimensional stability.

“Transportation is the fastest-growing end-use industry of biocomposites, in terms of value.”

The transportation end-use industry is estimated to account for the largest CAGR of the global biocomposites market. The demand for lightweight, naturally sourced products is resulting in increased fuel efficiency; it is expected to drive the biocomposites market growth. An increase in the penetration of biocomposites is expected during the forecast period as automobile manufacturers have to meet stringent emission norms, such as CAF?, EU Norms, and BS-IV. The global biocomposites market is, therefore, projected to register the highest CAGR in the transportation end-use industry between 2021 and 2026 compared to other end-use industries, such as building & construction and consumer goods. The production of biocomposite parts across various industries was halted due to COVID-19, in 2020

“Asia Pacific is the fastest-growing biocomposites market.”

Asia Pacific is projected to register the highest CAGR in terms of value in the global biocomposites market during the forecast period. Asia Pacific dominated the biocomposites industry in 2020. The biocomposites manufacturing companies have ample opportunities in the Asia Pacific market in comparison to the European and North American counterparts owing to low-cost labor and raw materials.

Due to COVID-19, composites producers and numerous companies have halted their production sites across various countries that has led to reduced demand for biocomposites, Asia Pacific countries. The recovery in the end-use industries with restoration in the supply chain would drive the biocomposites demand during the forecast period.

This study has been validated through primary interviews 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- 15%, Europe- 50%, Asia Pacific (APAC) - 20%, Latin America-5%, Middle East & Africa (MEA)-10%,

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

UPM (Finland),

Trex Company (US),

Fiberon LLC (US),

FlexForm Technologies (US),

Universal Forest Products, Inc. (US),

Nanjing Jufeng Advanced Materials Co., Ltd (China),

Meshlin Composites ZRT (Hungary),

Tecnaro GmbH (Germany),

Research Coverage

This report covers the global biocomposites market and forecasts the market size until 2026. The report includes the market segmentation – Fiber Type (Wood Fiber Composites, Non-wood Fiber Composites), Polymer Type(Natural Polymer composites, Synthetic polymer composites), Product (LayHybrid composites, Green composites), End-use Industry (Building & Construction, Transportation, Consumer goods, and Others) and Region (Europe, North America, Asia Pacific, Latin America, and Middle East & Africa). 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 biocomposites 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 biocomposites 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 biocomposites 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 better their position in their businesses. The competitive landscape section includes the competitor ecosystem, new product development, agreement, and acquisitions.

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 biocomposites 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 market and provide them with information on key market drivers, restraints, challenges, and opportunities

Contents

1 INTRODUCTION

1.1 OBJECTIVES OF THE STUDY

1.2 MARKET DEFINITION

1.3 INCLUSIONS & EXCLUSIONS

1.4 MARKET SCOPE

FIGURE 1 BIOCOMPOSITES MARKET SEGMENTATION

1.4.1 REGIONS COVERED

1.4.2 YEARS CONSIDERED

1.5 CURRENCY

1.6 UNIT CONSIDERED

1.7 LIMITATIONS

1.8 STAKEHOLDERS

1.9 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 BASE NUMBER CALCULATION

2.1.1 APPROACH 1: SUPPLY-SIDE ANALYSIS

2.1.2 APPROACH 2: DEMAND-SIDE APPROACH

2.2 FORECAST NUMBER CALCULATION

2.2.1 SUPPLY SIDE

2.2.2 DEMAND SIDE

2.3 RESEARCH DATA

2.3.1 SECONDARY DATA

2.3.2 PRIMARY DATA

2.3.2.1 Primary interviews - top biocomposite manufacturers

2.3.2.2 Breakdown of primary interviews

2.3.2.3 Key industry insights

2.4 MARKET SIZE ESTIMATION

2.4.1 BOTTOM-UP APPROACH

FIGURE 2 BIOCOMPOSITES MARKET: BOTTOM-UP APPROACH

2.4.2 TOP-DOWN APPROACH

FIGURE 3 BIOCOMPOSITES MARKET: TOP-DOWN APPROACH

2.5 DATA TRIANGULATION

FIGURE 4 BIOCOMPOSITES MARKET: DATA TRIANGULATION

2.6 FACTOR ANALYSIS

2.7 ASSUMPTIONS

2.8 LIMITATIONS & RISKS

3 EXECUTIVE SUMMARY

FIGURE 5 WOOD FIBER DOMINATED BIOCOMPOSITES MARKET

FIGURE 6 SYNTHETIC POLYMER-BASED BIOCOMPOSITES ACCOUNTED FOR LARGER MARKET SHARE

FIGURE 7 HYBRID COMPOSITES PRODUCT TYPE ACCOUNTED FOR LARGER MARKET SHARE IN 2020

FIGURE 8 BUILDING & CONSTRUCTION END-USE INDUSTRY ACCOUNTED FOR LARGEST SHARE OF BIOCOMPOSITES MARKET

FIGURE 9 ASIA PACIFIC LED BIOCOMPOSITES MARKET IN 2020

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN BIOCOMPOSITES MARKET

FIGURE 10 SIGNIFICANT GROWTH EXPECTED IN BIOCOMPOSITES MARKET BETWEEN 2021 AND 2026

4.2 BIOCOMPOSITES MARKET, BY END-USE INDUSTRY AND REGION, 2020

FIGURE 11 BUILDING & CONSTRUCTION WAS LARGEST END-USE INDUSTRY IN 2020

4.3 BIOCOMPOSITES MARKET, BY FIBER TYPE, 2020

FIGURE 12 WOOD FIBER COMPOSITES SEGMENT DOMINATED BIOCOMPOSITES MARKET IN 2020

4.4 BIOCOMPOSITES MARKET, BY POLYMER TYPE, 2020

FIGURE 13 SYNTHETIC POLYMER COMPOSITES SEGMENT HELD LARGER SHARE IN MARKET

4.5 BIOCOMPOSITES MARKET, BY PRODUCT, 2020

FIGURE 14 HYBRID COMPOSITES PRODUCT TYPE DOMINATED BIOCOMPOSITES MARKET

4.6 BIOCOMPOSITES MARKET GROWTH: KEY COUNTRIES

FIGURE 15 BRAZIL TO BE FASTEST-GROWING BIOCOMPOSITES MARKET

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 16 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN

BIOCOMPOSITES MARKET

5.2.1 DRIVERS

5.2.1.1 Government regulations regarding use of environmentally- friendly products

5.2.1.2 Safer compared to glass fibers

5.2.1.3 Recyclability

5.2.1.4 Government stimulus packages to drive biocomposites market

5.2.2 RESTRAINTS

5.2.2.1 Relatively low strength as compared to glass fibers

TABLE 1 DIFFERENT TYPES OF FIBERS AND THEIR PROPERTIES

5.2.2.2 Fluctuating cost, availability, and quality of raw materials

5.2.2.3 Lower demand, low-capacity utilization, and liquidity crunch due to COVID-19

5.2.3 OPPORTUNITIES

5.2.3.1 Possibility of price reduction with economies of scale

5.2.3.2 Increasing market penetration in automotive interior segment driven by government regulations

5.2.3.3 Opportunities in packaging industry

5.2.4 CHALLENGES

5.2.4.1 Maintaining consistency in manufacturing process and mechanical performance

5.2.4.2 Dominance of glass fiber and carbon fiber in composites industry

5.2.4.3 Overcoming bottlenecks in supply chain due to COVID-19 pandemic

5.3 INDUSTRY TRENDS

5.3.1 PORTER'S FIVE FORCES ANALYSIS

FIGURE 17 BIOCOMPOSITES MARKET: PORTER'S FIVE FORCES ANALYSIS

5.3.2 THREAT OF NEW ENTRANTS

5.3.3 THREAT OF SUBSTITUTES

5.3.4 BARGAINING POWER OF BUYERS

5.3.5 BARGAINING POWER OF SUPPLIERS

5.3.6 INTENSITY OF COMPETITIVE RIVALRY

TABLE 2 BIOCOMPOSITES MARKET: PORTER'S FIVE FORCES ANALYSIS

5.4 TECHNOLOGY ANALYSIS

TABLE 3 COMPARATIVE STUDY OF MAJOR BIOCOMPOSITE MANUFACTURING PROCESSES

5.5 ECOSYSTEM: BIOCOMPOSITES MARKET

5.6 VALUE CHAIN ANALYSIS

5.6.1 RAW MATERIALS

5.6.2 INTERMEDIATES

5.6.3 MOLDER

5.7 SUPPLY CHAIN ANALYSIS

5.8 IMPACT OF COVID-19

5.8.1 IMPACT OF COVID-19 ON AUTOMOTIVE AND TRANSPORTATION INDUSTRIES

5.8.2 SHORT-TERM STRATEGIES TO MANAGE COST STRUCTURE AND SUPPLY CHAINS

5.8.3 NEW OPPORTUNITIES

5.9 BIOCOMPOSITES MARKET: OPTIMISTIC, PESSIMISTIC, AND REALISTIC SCENARIOS

TABLE 4 BIOCOMPOSITES MARKET: CAGR (BY VALUE) IN REALISTIC, PESSIMISTIC, AND OPTIMISTIC SCENARIOS

5.9.1 OPTIMISTIC SCENARIO

5.9.2 PESSIMISTIC SCENARIO

5.9.3 REALISTIC SCENARIO

5.10 PRICING ANALYSIS

5.11 AVERAGE SELLING PRICE

TABLE 5 BIOCOMPOSITES AVERAGE SELLING PRICE, BY REGION

5.12 KEY MARKETS FOR IMPORT/EXPORT

5.13 PATENT ANALYSIS

5.13.1 INTRODUCTION

5.13.2 METHODOLOGY

5.13.3 DOCUMENT TYPE

TABLE 6 BIOCOMPOSITES MARKET: GLOBAL PATENTS

FIGURE 19 GLOBAL PATENT ANALYSIS, BY DOCUMENT TYPE

FIGURE 20 GLOBAL PATENT PUBLICATION TREND ANALYSIS: LAST 10 YEARS

5.13.4 INSIGHTS

5.13.5 LEGAL STATUS OF PATENTS

FIGURE 21 BIOCOMPOSITES MARKET: LEGAL STATUS OF PATENTS

5.13.6 JURISDICTION ANALYSIS

FIGURE 22 GLOBAL JURISDICTION ANALYSIS

5.13.7 TOP APPLICANTS' ANALYSIS

FIGURE 23 OSSIO LTD. HAS HIGHEST NUMBER OF PATENTS

5.13.8 LIST OF PATENTS, BY OSSIO LTD.

5.13.9 LIST OF PATENTS, BY CNH INDUSTRIAL CANADA

5.13.10 LIST OF PATENTS BY ECOVATIVE DESIGN LLC

5.13.11 TOP 10 PATENT OWNERS (US) IN LAST 10 YEARS

5.14 CASE STUDY ANALYSIS

5.15 TARIFF AND REGULATIONS

TABLE 7 CURRENT STANDARD CODES FOR AUTOMOTIVE COMPOSITES

TABLE 8 CURRENT STANDARD CODES FOR CONSTRUCTION COMPOSITES

5.16 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS

6 BIOCOMPOSITES MARKET, BY FIBER TYPE

6.1 INTRODUCTION

FIGURE 24 WOOD FIBER COMPOSITES TO DOMINATE BIOCOMPOSITES MARKET

TABLE 9 BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 10 BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 11 BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

TABLE 12 BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

6.2 WOOD FIBER COMPOSITES

6.2.1 THESE COMPOSITES ARE USED MAINLY AS INDOOR AND OUTDOOR DECKING

6.2.2 HARDWOOD

6.2.3 SOFTWOOD

FIGURE 25 ASIA PACIFIC TO BE LARGEST WOOD FIBER COMPOSITES MARKET DURING FORECAST PERIOD

6.2.4 WOOD FIBER COMPOSITES, BY REGION

TABLE 13 WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 14 WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 15 WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

TABLE 16 WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2021–2026 (KILOTON)

6.3 NON-WOOD FIBER COMPOSITES

6.3.1 PREFERABLE ALTERNATIVE TO GLASS, CARBON, AND SYNTHETIC FIBER COMPOSITES

TABLE 17 NATURAL FIBER COMPOSITES IN AUTOMOTIVE INDUSTRY BY DIFFERENT MANUFACTURERS

TABLE 18 SURFACE TREATMENT PROCESSES

6.3.2 FLAX

6.3.3 HEMP

6.3.4 JUTE

6.3.5 OTHERS

TABLE 19 PROPERTIES OF NATURAL FIBERS AND GLASS FIBERS

FIGURE 26 ASIA PACIFIC TO BE LARGEST NON-WOOD FIBER COMPOSITES MARKET

6.3.6 NON-WOOD FIBER COMPOSITES, BY REGION

TABLE 20 NON-WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 21 NON-WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 22 NON-WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

TABLE 23 NON-WOOD FIBER COMPOSITES MARKET SIZE, BY REGION, 2021–2026 (KILOTON)

7 BIOCOMPOSITES MARKET, BY POLYMER TYPE

7.1 INTRODUCTION

FIGURE 27 SYNTHETIC POLYMER COMPOSITES TO DOMINATE BIOCOMPOSITES MARKET

TABLE 24 BIOCOMPOSITES MARKET SIZE, BY POLYMER TYPE, 2017–2020 (USD MILLION)

TABLE 25 BIOCOMPOSITES MARKET SIZE, BY POLYMER TYPE, 2017–2020 (KILOTON)

TABLE 26 BIOCOMPOSITES MARKET SIZE, BY POLYMER TYPE, 2021–2026 (USD MILLION)

TABLE 27 BIOCOMPOSITES MARKET SIZE, BY POLYMER TYPE, 2021–2026 (KILOTON)

7.2 NATURAL POLYMER

7.2.1 INCREASING GOVERNMENT REGULATIONS ENABLING MANUFACTURERS TO ADOPT NATURAL POLYMERS FOR VARIOUS APPLICATIONS

7.2.2 POLYHYDROXYALKANOATE (PHA)

7.2.3 POLYLACTIC ACID (PLA)

7.2.4 OTHERS

TABLE 28 PROPERTIES & APPLICATIONS OF NATURAL POLYMERS

FIGURE 28 ASIA PACIFIC TO BE LARGEST NATURAL POLYMER-BASED BIOCOMPOSITES MARKET

7.2.5 NATURAL POLYMER-BASED BIOCOMPOSITES MARKET, BY REGION

TABLE 29 NATURAL POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY

REGION, 2017–2020 (USD MILLION)

TABLE 30 NATURAL POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 31 NATURAL POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

TABLE 32 NATURAL POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (KILOTON)

7.3 SYNTHETIC POLYMER

7.3.1 FLAME RETARDANT AND RESISTANCE TO MOISTURE PROPERTIES MAKES THEM FAVORABLE FOR DIFFERENT END-USE INDUSTRIES

7.3.2 EPOXY

7.3.3 POLYPROPYLENE (PP)

7.3.4 OTHERS

FIGURE 29 ASIA PACIFIC TO BE LARGEST SYNTHETIC POLYMER-BASED BIOCOMPOSITES MARKET

7.3.5 SYNTHETIC POLYMER-BASED BIOCOMPOSITES MARKET, BY REGION
TABLE 33 SYNTHETIC POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 34 SYNTHETIC POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 35 SYNTHETIC POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

TABLE 36 SYNTHETIC POLYMER-BASED BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (KILOTON)

8 BIOCOMPOSITES MARKET, BY PRODUCT

8.1 INTRODUCTION

FIGURE 30 HYBRID BIOCOMPOSITES TO DOMINATE BIOCOMPOSITES MARKET

TABLE 37 BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (USD MILLION)

TABLE 38 BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (KILOTON)

TABLE 39 BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (USD MILLION)

TABLE 40 BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (KILOTON)

8.2 HYBRID BIOCOMPOSITES

8.2.1 NEW ADDITIONS IN INDUSTRIAL MANUFACTURING DRIVING DEMAND FOR HYBRID BIOCOMPOSITES

FIGURE 31 ASIA PACIFIC TO BE LARGEST HYBRID BIOCOMPOSITES MARKET

8.2.2 HYBRID BIOCOMPOSITES MARKET, BY REGION

TABLE 41 HYBRID BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 42 HYBRID BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 43 HYBRID BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

TABLE 44 HYBRID BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (KILOTON)

8.3 GREEN BIOCOMPOSITES

8.3.1 GROWING ENVIRONMENTAL AWARENESS FUELLING ADOPTION OF GREEN BIOCOMPOSITES

FIGURE 32 ASIA PACIFIC TO BE LARGEST GREEN BIOCOMPOSITES MARKET

8.3.2 GREEN BIOCOMPOSITES MARKET, BY REGION

TABLE 45 GREEN BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 46 GREEN BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 47 GREEN BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

TABLE 48 GREEN BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (KILOTON)

9 BIOCOMPOSITES MARKET, BY END-USE INDUSTRY

9.1 INTRODUCTION

FIGURE 33 BUILDING & CONSTRUCTION INDUSTRY TO DOMINATE BIOCOMPOSITES MARKET

TABLE 49 BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 50 BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 51 BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (USD MILLION)

TABLE 52 BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (KILOTON)

9.2 TRANSPORTATION

9.2.1 ENVIRONMENTAL REGULATIONS REGARDING EMISSION STANDARDS DRIVING DEMAND FOR BIOCOMPOSITES

FIGURE 34 ASIA PACIFIC TO HAVE LARGEST DEMAND FOR BIOCOMPOSITES FROM TRANSPORTATION INDUSTRY

9.2.2 BIOCOMPOSITES MARKET SIZE IN TRANSPORTATION END-USE INDUSTRY, BY REGION

TABLE 53 BIOCOMPOSITES MARKET SIZE IN TRANSPORTATION END-USE INDUSTRY, BY REGION, 2017–2020 (USD MILLION)

TABLE 54 BIOCOMPOSITES MARKET SIZE IN TRANSPORTATION END-USE INDUSTRY, BY REGION, 2017–2020 (KILOTON)

TABLE 55 BIOCOMPOSITES MARKET SIZE IN TRANSPORTATION END-USE INDUSTRY, BY REGION, 2021–2026 (USD MILLION)

TABLE 56 BIOCOMPOSITES MARKET SIZE IN TRANSPORTATION END-USE INDUSTRY, BY REGION, 2021–2026 (KILOTON)

9.3 BUILDING & CONSTRUCTION

9.3.1 LARGEST END-USE INDUSTRY OF BIOCOMPOSITES MARKET

FIGURE 35 ASIA PACIFIC TO HAVE LARGEST DEMAND FROM BUILDING & CONSTRUCTION INDUSTRY

9.3.2 BIOCOMPOSITES MARKET SIZE IN BUILDING & CONSTRUCTION END-USE INDUSTRY, BY REGION

TABLE 57 BIOCOMPOSITES MARKET SIZE IN BUILDING & CONSTRUCTION END-USE INDUSTRY, BY REGION, 2017–2020 (USD MILLION)

TABLE 58 BIOCOMPOSITES MARKET SIZE IN BUILDING & CONSTRUCTION END-USE INDUSTRY, BY REGION, 2017–2020 (KILOTON)

TABLE 59 BIOCOMPOSITES MARKET SIZE IN BUILDING & CONSTRUCTION END-USE INDUSTRY, BY REGION, 2021–2026 (USD MILLION)

TABLE 60 BIOCOMPOSITES MARKET SIZE IN BUILDING & CONSTRUCTION END-USE INDUSTRY, BY REGION, 2021–2026 (KILOTON)

9.4 CONSUMER GOODS

9.4.1 INCREASING ADOPTION OF BIOCOMPOSITES TO MANUFACTURE VARIOUS CONSUMER GOODS DRIVING MARKET

9.4.2 BIOCOMPOSITES MARKET SIZE IN CONSUMER GOODS END-USE INDUSTRY, BY REGION

TABLE 61 BIOCOMPOSITES MARKET SIZE IN CONSUMER GOODS END-USE INDUSTRY, BY REGION, 2017–2020 (USD MILLION)

TABLE 62 BIOCOMPOSITES MARKET SIZE IN CONSUMER GOODS END-USE INDUSTRY, BY REGION, 2017–2020 (KILOTON)

TABLE 63 BIOCOMPOSITES MARKET SIZE IN CONSUMER GOODS END-USE INDUSTRY, BY REGION, 2021–2026 (USD MILLION)

TABLE 64 BIOCOMPOSITES MARKET SIZE IN CONSUMER GOODS END-USE INDUSTRY, BY REGION, 2021–2026 (KILOTON)

9.5 OTHERS

9.5.1 MARINE

9.5.2 SPORTS & LEISURE GOODS

9.5.3 ELECTRICAL & ELECTRONICS

9.5.4 AEROSPACE

9.5.5 BIOCOMPOSITES MARKET SIZE IN OTHER END-USE INDUSTRIES, BY REGION

TABLE 65 BIOCOMPOSITES MARKET SIZE IN OTHER END-USE INDUSTRIES, BY REGION, 2017–2020 (USD MILLION)

TABLE 66 BIOCOMPOSITES MARKET SIZE IN OTHER END-USE INDUSTRIES, BY REGION, 2017–2020 (KILOTON)

TABLE 67 BIOCOMPOSITES MARKET SIZE IN OTHER END-USE INDUSTRIES, BY REGION, 2021–2026 (USD MILLION)

TABLE 68 BIOCOMPOSITES MARKET SIZE IN OTHER END-USE INDUSTRIES, BY REGION, 2021–2026 (KILOTON)

10 BIOCOMPOSITES MARKET, BY REGION

10.1 INTRODUCTION

FIGURE 36 CHINA TO BE FASTEST-GROWING BIOCOMPOSITES MARKET DURING FORECAST PERIOD

TABLE 69 BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 70 BIOCOMPOSITES MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 71 BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (KILOTON)

TABLE 72 BIOCOMPOSITES MARKET SIZE, BY REGION, 2021–2026 (USD MILLION)

10.2 NORTH AMERICA

FIGURE 37 NORTH AMERICA: BIOCOMPOSITES MARKET SNAPSHOT

10.2.1 NORTH AMERICA: BIOCOMPOSITES MARKET, BY FIBER TYPE

TABLE 73 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 74 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 75 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 76 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

10.2.2 NORTH AMERICA: BIOCOMPOSITES MARKET, BY POLYMER

TABLE 77 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020 (KILOTON)

TABLE 78 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020 (USD MILLION)

TABLE 79 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (KILOTON)

TABLE 80 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (USD MILLION)

10.2.3 NORTH AMERICA: BIOCOMPOSITES MARKET, BY PRODUCT

TABLE 81 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (KILOTON)

TABLE 82 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (USD MILLION)

TABLE 83 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (KILOTON)

TABLE 84 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (USD MILLION)

10.2.4 NORTH AMERICA: BIOCOMPOSITES MARKET, BY END-USE INDUSTRY

TABLE 85 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 86 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 87 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (KILOTON)

TABLE 88 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (USD MILLION)

10.2.5 NORTH AMERICA: BIOCOMPOSITES MARKET, BY COUNTRY

TABLE 89 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 90 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 91 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (KILOTON)

TABLE 92 NORTH AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)

10.2.5.1 US

TABLE 93 US: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 94 US: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD

MILLION)

TABLE 95 US: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(KILOTON)

TABLE 96 US: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD
MILLION)

10.2.5.2 Canada

TABLE 97 CANADA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(KILOTON)

TABLE 98 CANADA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(USD MILLION)

TABLE 99 CANADA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(KILOTON)

TABLE 100 CANADA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(USD MILLION)

10.3 EUROPE

FIGURE 38 EUROPE: BIOCOMPOSITES MARKET SNAPSHOT

10.3.1 EUROPE: BIOCOMPOSITES MARKET, BY FIBER TYPE

TABLE 101 EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (KILOTON)

TABLE 102 EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (USD MILLION)

TABLE 103 EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (KILOTON)

TABLE 104 EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (USD MILLION)

10.3.2 EUROPE: BIOCOMPOSITES MARKET, BY POLYMER

TABLE 105 EUROPE: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020
(KILOTON)

TABLE 106 EUROPE: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020
(USD MILLION)

TABLE 107 EUROPE: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026
(KILOTON)

TABLE 108 EUROPE: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026
(USD MILLION)

10.3.3 EUROPE: BIOCOMPOSITES MARKET, BY PRODUCT

TABLE 109 EUROPE: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020
(KILOTON)

TABLE 110 EUROPE: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020
(USD MILLION)

TABLE 111 EUROPE: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (KILOTON)

TABLE 112 EUROPE: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (USD MILLION)

10.3.4 EUROPE: BIOCOMPOSITES MARKET, BY END-USE INDUSTRY

TABLE 113 EUROPE: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 114 EUROPE: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 115 EUROPE: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (KILOTON)

TABLE 116 EUROPE: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (USD MILLION)

10.3.5 EUROPE: BIOCOMPOSITES MARKET, BY COUNTRY

TABLE 117 EUROPE: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 118 EUROPE: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 119 EUROPE: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (KILOTON)

TABLE 120 EUROPE: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)

10.3.5.1 Germany

TABLE 121 GERMANY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 122 GERMANY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 123 GERMANY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 124 GERMANY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

10.3.5.2 France

TABLE 125 FRANCE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 126 FRANCE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 127 FRANCE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 128 FRANCE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026

(USD MILLION)

10.3.5.3 UK

TABLE 129 UK: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020

(KILOTON)

TABLE 130 UK: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 131 UK: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026

(KILOTON)

TABLE 132 UK: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

10.3.5.4 Turkey

TABLE 133 TURKEY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 134 TURKEY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 135 TURKEY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 136 TURKEY: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

10.3.5.5 Russia

TABLE 137 RUSSIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 138 RUSSIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 139 RUSSIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 140 RUSSIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

10.3.5.6 Rest of Europe

TABLE 141 REST OF EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 142 REST OF EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 143 REST OF EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 144 REST OF EUROPE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

10.4 ASIA PACIFIC

FIGURE 39 ASIA PACIFIC: BIOCOMPOSITES MARKET SNAPSHOT

10.4.1 ASIA PACIFIC: BIOCOMPOSITES MARKET, BY FIBER TYPE

TABLE 145 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 146 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 147 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 148 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026 (USD MILLION)

10.4.2 ASIA PACIFIC: BIOCOMPOSITES MARKET, BY POLYMER

TABLE 149 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020 (KILOTON)

TABLE 150 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020 (USD MILLION)

TABLE 151 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (KILOTON)

TABLE 152 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (USD MILLION)

10.4.3 ASIA PACIFIC: BIOCOMPOSITES MARKET, BY PRODUCT

TABLE 153 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (KILOTON)

TABLE 154 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (USD MILLION)

TABLE 155 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (KILOTON)

TABLE 156 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (USD MILLION)

10.4.4 ASIA PACIFIC: BIOCOMPOSITES MARKET, BY END-USE INDUSTRY

TABLE 157 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 158 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 159 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (KILOTON)

TABLE 160 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (USD MILLION)

10.4.5 ASIA PACIFIC: BIOCOMPOSITES MARKET, BY COUNTRY

TABLE 161 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 162 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY COUNTRY,
2017–2020 (USD MILLION)

TABLE 163 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY COUNTRY,
2021–2026 (KILOTON)

TABLE 164 ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY COUNTRY,
2021–2026 (USD MILLION)

10.4.5.1 China

TABLE 165 CHINA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(KILOTON)

TABLE 166 CHINA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(USD MILLION)

TABLE 167 CHINA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(KILOTON)

TABLE 168 CHINA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(USD MILLION)

10.4.5.2 Japan

TABLE 169 JAPAN: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(KILOTON)

TABLE 170 JAPAN: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(USD MILLION)

TABLE 171 JAPAN: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(KILOTON)

TABLE 172 JAPAN: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(USD MILLION)

10.4.5.3 India

TABLE 173 INDIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(KILOTON)

TABLE 174 INDIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(USD MILLION)

TABLE 175 INDIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(KILOTON)

TABLE 176 INDIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(USD MILLION)

10.4.5.4 South Korea

TABLE 177 SOUTH KOREA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (KILOTON)

TABLE 178 SOUTH KOREA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (USD MILLION)

TABLE 179 SOUTH KOREA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,

2021–2026 (KILOTON)

TABLE 180 SOUTH KOREA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (USD MILLION)

10.4.5.5 Indonesia

TABLE 181 INDONESIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (KILOTON)

TABLE 182 INDONESIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (USD MILLION)

TABLE 183 INDONESIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (KILOTON)

TABLE 184 INDONESIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (USD MILLION)

10.4.5.6 Thailand

TABLE 185 THAILAND: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (KILOTON)

TABLE 186 THAILAND: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (USD MILLION)

TABLE 187 THAILAND: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (KILOTON)

TABLE 188 THAILAND: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (USD MILLION)

10.4.5.7 Rest of Asia Pacific

TABLE 189 REST OF ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2017–2020 (KILOTON)

TABLE 190 REST OF ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2017–2020 (USD MILLION)

TABLE 191 REST OF ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2021–2026 (KILOTON)

TABLE 192 REST OF ASIA PACIFIC: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2021–2026 (USD MILLION)

10.5 LATIN AMERICA

10.5.1 LATIN AMERICA: BIOCOMPOSITES MARKET, BY FIBER TYPE

TABLE 193 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (KILOTON)

TABLE 194 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (USD MILLION)

TABLE 195 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (KILOTON)

TABLE 196 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,

2021–2026 (USD MILLION)

10.5.2 LATIN AMERICA: BIOCOMPOSITES MARKET, BY POLYMER

TABLE 197 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020 (KILOTON)

TABLE 198 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2017–2020 (USD MILLION)

TABLE 199 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (KILOTON)

TABLE 200 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (USD MILLION)

10.5.3 LATIN AMERICA: BIOCOMPOSITES MARKET, BY PRODUCT

TABLE 201 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (KILOTON)

TABLE 202 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (USD MILLION)

TABLE 203 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (KILOTON)

TABLE 204 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (USD MILLION)

10.5.4 LATIN AMERICA: BIOCOMPOSITES MARKET, BY END-USE INDUSTRY

TABLE 205 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 206 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 207 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (KILOTON)

TABLE 208 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (USD MILLION)

10.5.5 LATIN AMERICA: BIOCOMPOSITES MARKET, BY COUNTRY

TABLE 209 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 210 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 211 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (KILOTON)

TABLE 212 LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)

10.5.5.1 Brazil

TABLE 213 BRAZIL: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020

(KILOTON)

TABLE 214 BRAZIL: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(USD MILLION)

TABLE 215 BRAZIL: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(KILOTON)

TABLE 216 BRAZIL: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(USD MILLION)

10.5.5.2 Mexico

TABLE 217 MEXICO: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(KILOTON)

TABLE 218 MEXICO: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020
(USD MILLION)

TABLE 219 MEXICO: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(KILOTON)

TABLE 220 MEXICO: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(USD MILLION)

10.5.5.3 Rest of Latin America

TABLE 221 REST OF LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2017–2020 (KILOTON)

TABLE 222 REST OF LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2017–2020 (USD MILLION)

TABLE 223 REST OF LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2021–2026 (KILOTON)

TABLE 224 REST OF LATIN AMERICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2021–2026 (USD MILLION)

10.6 MIDDLE EAST & AFRICA

10.6.1 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET, BY FIBER TYPE

TABLE 225 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2017–2020 (KILOTON)

TABLE 226 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2017–2020 (USD MILLION)

TABLE 227 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2021–2026 (KILOTON)

TABLE 228 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER
TYPE, 2021–2026 (USD MILLION)

10.6.2 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET, BY POLYMER

TABLE 229 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY
POLYMER, 2017–2020 (KILOTON)

TABLE 230 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY

POLYMER, 2017–2020 (USD MILLION)

TABLE 231 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (KILOTON)

TABLE 232 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY POLYMER, 2021–2026 (USD MILLION)

10.6.3 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET, BY PRODUCT

TABLE 233 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (KILOTON)

TABLE 234 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2017–2020 (USD MILLION)

TABLE 235 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (KILOTON)

TABLE 236 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY PRODUCT, 2021–2026 (USD MILLION)

10.6.4 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET, BY END-USE INDUSTRY

TABLE 237 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 238 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 239 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (KILOTON)

TABLE 240 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2021–2026 (USD MILLION)

10.6.5 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET, BY COUNTRY

TABLE 241 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 242 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 243 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (KILOTON)

TABLE 244 MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE, BY COUNTRY, 2021–2026 (USD MILLION)

10.6.5.1 UAE

TABLE 245 UAE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 246 UAE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 247 UAE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026

(KILOTON)

TABLE 248 UAE: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE, 2021–2026
(USD MILLION)

10.6.5.2 Saudi Arabia

TABLE 249 SAUDI ARABIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (KILOTON)

TABLE 250 SAUDI ARABIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (USD MILLION)

TABLE 251 SAUDI ARABIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (KILOTON)

TABLE 252 SAUDI ARABIA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (USD MILLION)

10.6.5.3 South Africa

TABLE 253 SOUTH AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (KILOTON)

TABLE 254 SOUTH AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2017–2020 (USD MILLION)

TABLE 255 SOUTH AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (KILOTON)

TABLE 256 SOUTH AFRICA: BIOCOMPOSITES MARKET SIZE, BY FIBER TYPE,
2021–2026 (USD MILLION)

10.6.5.4 Rest of Middle East & Africa

TABLE 257 REST OF MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE,
BY FIBER TYPE, 2017–2020 (KILOTON)

TABLE 258 REST OF MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE,
BY FIBER TYPE, 2017–2020 (USD MILLION)

TABLE 259 REST OF MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE,
BY FIBER TYPE, 2021–2026 (KILOTON)

TABLE 260 REST OF MIDDLE EAST & AFRICA: BIOCOMPOSITES MARKET SIZE,
BY FIBER TYPE, 2021–2026 (USD MILLION)

11 COMPETITIVE LANDSCAPE

11.1 INTRODUCTION

11.2 MARKET SHARE ANALYSIS

FIGURE 40 SHARE OF TOP COMPANIES IN BIOCOMPOSITES MARKET

TABLE 261 DEGREE OF COMPETITION: BIOCOMPOSITES MARKET

11.3 MARKET RANKING

FIGURE 41 RANKING OF TOP FIVE PLAYERS IN BIOCOMPOSITES MARKET

11.4 MARKET EVALUATION FRAMEWORK

TABLE 262 BIOCOMPOSITES MARKET: DEALS, 2016–2021

TABLE 263 BIOCOMPOSITES MARKET: OTHERS, 2016–2021

TABLE 264 BIOCOMPOSITES MARKET: NEW PRODUCT DEVELOPMENT, 2016–2021

11.5 REVENUE ANALYSIS OF TOP MARKET PLAYERS

11.6 COMPANY EVALUATION MATRIX

TABLE 265 COMPANY PRODUCT FOOTPRINT

TABLE 266 COMPANY END-USE INDUSTRY FOOTPRINT

TABLE 267 COMPANY REGION FOOTPRINT

TABLE 268 BIOCOMPOSITES MARKET: DETAILED LIST OF KEY STARTUP/SMES

TABLE 269 BIOCOMPOSITES MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUP/SMES

11.6.1 STAR

11.6.2 PERVASIVE

11.6.3 PARTICIPANTS

11.6.4 EMERGING LEADERS

FIGURE 42 BIOCOMPOSITES MARKET (GLOBAL): COMPETITIVE LEADERSHIP MAPPING, 2020

11.6.5 STRENGTH OF PRODUCT PORTFOLIO

FIGURE 43 PRODUCT PORTFOLIO ANALYSIS OF TOP PLAYERS IN BIOCOMPOSITES MARKET

11.6.6 BUSINESS STRATEGY EXCELLENCE

FIGURE 44 BUSINESS STRATEGY EXCELLENCE OF TOP PLAYERS IN BIOCOMPOSITES MARKET

11.7 SMALL AND MEDIUM-SIZED ENTERPRISES (SME) EVALUATION MATRIX

11.8 START-UP/ SMALL AND MEDIUM-SIZED ENTERPRISES (SME) EVALUATION MATRIX

11.8.1 PROGRESSIVE COMPANIES

11.8.2 RESPONSIVE COMPANIES

11.8.3 DYNAMIC COMPANIES

11.8.4 STARTING BLOCKS

FIGURE 45 BIOCOMPOSITES MARKET: SMALL AND MEDIUM-SIZED ENTERPRISES MAPPING, 2020

12 COMPANY PROFILES

12.1 KEY COMPANIES

(Business overview, Products offered, Recent Developments, MNM view)*

12.1.1 TREX COMPANY, INC.

TABLE 270 TREX COMPANY, INC.: COMPANY OVERVIEW

FIGURE 46 TREX COMPANY, INC.: COMPANY SNAPSHOT

12.1.2 UPM

TABLE 271 UPM: COMPANY OVERVIEW

FIGURE 47 UPM: COMPANY SNAPSHOT

12.1.3 UNIVERSAL FOREST PRODUCTS, INC.

TABLE 272 UNIVERSAL FOREST PRODUCTS, INC.: COMPANY OVERVIEW

FIGURE 48 UNIVERSAL FOREST PRODUCTS, INC.: COMPANY SNAPSHOT

12.1.4 CELANESE CORPORATION

TABLE 273 CELANESE CORPORATION: COMPANY OVERVIEW

FIGURE 49 CELANESE CORPORATION: COMPANY SNAPSHOT

12.1.5 DAICEL CORPORATION

TABLE 274 DAICEL CORPORATION: COMPANY OVERVIEW

FIGURE 50 DAICEL CORPORATION: COMPANY SNAPSHOT

12.1.6 FLEXFORM TECHNOLOGIES

TABLE 275 FLEXFORM TECHNOLOGIES: COMPANY OVERVIEW

12.1.7 SAPPI

TABLE 276 SAPPI: COMPANY OVERVIEW

FIGURE 51 SAPPI: COMPANY SNAPSHOT

12.1.8 TECNARO GMBH

TABLE 277 TECNARO GMBH: COMPANY OVERVIEW

12.1.9 JELU-WERK J. EHRLER GMBH & CO. KG

TABLE 278 JELU-WERK J. EHRLER GMBH & CO. KG: COMPANY OVERVIEW

12.1.10 GREEN BAY DECKING LLC

TABLE 279 GREEN BAY DECKING LLC: COMPANY OVERVIEW

12.1.11 EASTMAN CHEMICAL COMPANY

TABLE 280 EASTMAN CHEMICAL COMPANY: COMPANY OVERVIEW

FIGURE 52 EASTMAN CHEMICAL COMPANY: COMPANY SNAPSHOT

12.1.12 FIBERON LLC

TABLE 281 FIBERON LLC: COMPANY OVERVIEW

12.1.13 MESHLIN COMPOSITES ZRT

TABLE 282 MESHLIN COMPOSITES ZRT: COMPANY OVERVIEW

12.1.14 AZTRON TECHNOLOGIES

TABLE 283 AZTRON TECHNOLOGIES: COMPANY OVERVIEW

12.1.15 HUANGSHAN HUASU NEW MATERIAL SCIENCE & TECHNOLOGY CO., LTD.

TABLE 284 HUANGSHAN HUASU NEW MATERIAL SCIENCE & TECHNOLOGY CO., LTD.: COMPANY OVERVIEW

12.1.16 NEWTECHWOOD LTD.

TABLE 285 NEWTECHWOOD LTD.: COMPANY OVERVIEW

12.1.17 NANJING JUFENG ADVANCED MATERIALS CO., LTD.

TABLE 286 NANJING JUFENG ADVANCED MATERIALS CO., LTD.: COMPANY OVERVIEW

*Details on Business overview, Products offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

12.2 OTHER KEY PLAYERS

12.2.1 ADVANCED ENVIRONMENTAL RECYCLING TECHNOLOGIES, INC.

12.2.2 MCG BIOCOMPOSITES LLC

12.2.3 A B COMPOSITES PVT. LTD.

12.2.4 BCOMP LTD.

12.2.5 TTS (TEKLE TECHNICAL SERVICES), INC.

12.2.6 GREEN DOT HOLDING LLC

12.2.7 LINGROVE

12.2.8 POLYVLIES FRANZ BEYER GMBH & CO. KG

12.2.9 WEYERHAEUSER

12.2.10 TAMKO BUILDING PRODUCTS INC.

12.2.11 WINRIGO

12.2.12 YIXING HUALONG NEW MATERIAL LUMBER CO., LTD.

12.2.13 ANHUI HUIYUN WOOD PLASTIC COMPOSITE CO., LTD.

13 APPENDIX

13.1 DISCUSSION GUIDE

13.2 KNOWLEDGE STORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

13.3 AVAILABLE CUSTOMIZATIONS

13.4 RELATED REPORTS

13.5 AUTHOR DETAILS

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