

Thermoplastic Composites Market by Resin Type (Polypropylene, Polyamide, Polyetheretherketone, Hybrid), Fiber Type (Glass, Carbon, Mineral), Product Type (SFT, LFT, CFT, GMT), End-Use Industry, and Region - Global Forecast to 2025

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Abstracts

“The thermoplastic composites market is projected to register a CAGR of 7.5% during the forecast period.”

The global thermoplastic composites market size is projected to grow from USD 22.2 billion in 2020 to USD 31.8 billion by 2025, at a CAGR of 7.5% between 2020 and 2025. Composites offer exceptional properties, such as stiffness, strength, tenacity, density, thermal & electrical conductivity, fatigue, and corrosion resistance. Owing to these outstanding properties offered by the composites, they are preferred over conventional materials such as aluminum steel in high performance applications in several end-use industries. However, global pandemic disease COVID-19 has forced the automotive, wind blade, and aircraft manufacturers to shut down their operations, which is expected to decrease the demand for composites in 2020.

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

Carbon fiber thermoplastic composites are projected to register the highest CAGR in terms of value between 2020 and 2025. Carbon fiber is twice as strong, and 30% lighter compared to glass and natural fiber and has been used in high end applications to offer FST properties, light weight, corrosion resistance, and high strength. However, due to COVID-19, carbon fiber thermoplastic composites production and demand have reduced. It is expected that advancement in carbon fiber manufacturing and a decrease

in crude oil prices would result in a reduction of carbon fiber thermoplastic composites prices. This, in turn, would bolster the growth and penetration of carbon fiber thermoplastic composites in various end-use industries.

“PEEK is the fastest-growing resin type of thermoplastic composites, in terms of value.”

PEEK based thermoplastic composites have high demand in the aerospace & defense, automotive, and medical industries. PEEK resin offers extreme toughness and high environmental and fire resistance properties. PEEK resin-based thermoplastic composites offer improved thermal stability in high-temperature applications and are resistant to chemicals and fatigue environments. Their carbon fiber reinforcement grade offers a high level of rigidity and creep strength. However, due to COVID-19 and prices increase, the demand for PEEK is expected to fall in 2020 and would recover after the stabilization in the global economy.

“Long fiber thermoplastic (LFT) is expected to witness highest CAGR in the thermoplastic composites market in terms of value.”

LFT is expected to register the highest growth during forecast period owing to moderate cost and comparable superior with CFT. LFT bridges the cost gap and performance properties between SFT and CFT. LFT majorly employs glass and carbon fibers that are compatible with wide range of thermoplastic composites. Thus there is a high demand for LFT from various end-use industries in the thermoplastic composites market. Due to COVID-19, there is a decreased demand for LFT in wind energy, consumer goods & electronics, construction, transportation, and aerospace & defense industries. The recovery in these industries post COVID-19 pandemic would restore the demand for LFT.

“Aerospace & Defense is the fastest-growing end-use industry of composites, in terms of value.”

The aerospace & defense industry would register the highest CAGR in terms of value during the forecast period due to increasing demand for interior applications in the aircraft. The thermoplastic composites offer properties such as light weight, increased fuel efficiency, FST properties, corrosion resistance, and ability to mold into different and complex shapes. Thus, the growth of thermoplastic composites is the highest in aerospace & defense industry. Due to COVID-19, there is a fall in demand for thermoplastic composites from commercial aircraft manufacturers. However, the demand would gain pace with the stimulus packages announced by the government for

recovery in the aerospace industry.

“APAC is the fastest-growing composites market.”

APAC is projected to register the highest CAGR in terms of value in the global thermoplastic composites market during the forecast period. The growth of the thermoplastic composites industry in this region is supported by the low-cost labor, the advancement of thermoplastic composite technology solutions, and the penetration of thermoplastic composites in various end-use industries.

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

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:

BASF SE (Germany)

Celanese Corporation (US)

SABIC (Saudi Arabia)

DowDuPont Inc. (US)

Koninklijke DSM N.V. (Netherlands)

Toray Industries, Inc. (Japan)

Lanxess AG (Germany)

Mitsubishi Chemical Holdings Corporation (Japan)

SGL Group (Germany)

Solvay (Belgium)

Research Coverage

This report covers the global composites market and forecasts the market size until 2024. The report includes the market segmentation – Fiber Type (Glass, Carbon, Mineraland Other), Resin Type(PA, PP, PEEK, Hybrid, Others), Product Type (SFT, LFT, CFT, GMT), End-use Industry (Aerospace & Defense, Wind Energy, Transportation, Construction, Consumer goods & electronics. Sports & leisure, 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 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 thermoplastic 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 thermoplastic 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 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 thermoplastic 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 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 MARKET SCOPE
 - 1.3.1 MARKET SEGMENTATION
 - 1.3.2 YEARS CONSIDERED IN THE REPORT
- 1.4 CURRENCY
- 1.5 UNIT CONSIDERED
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 THERMOPLASTIC COMPOSITES MARKET: RESEARCH METHODOLOGY
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Primary interviews
 - 2.1.2.2 Key data from primary sources
 - 2.1.2.3 Key industry insights
 - 2.1.2.4 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 SUPPLY SIDE ANALYSIS
 - FIGURE 2 MARKET NUMBER ESTIMATION
 - 2.2.2 DEMAND SIDE ANALYSIS
 - 2.2.3 SEGMENT ANALYSIS
 - 2.2.4 FORECAST
- 2.3 DATA TRIANGULATION
 - FIGURE 3 THERMOPLASTIC COMPOSITES MARKET: DATA TRIANGULATION
- 2.4 ASSUMPTIONS
- 2.5 LIMITATIONS

3 EXECUTIVE SUMMARY

3.1 IMPACT OF COVID-19 PANDEMIC ON THE GLOBAL THERMOPLASTIC COMPOSITES MARKET

FIGURE 4 LFT SEGMENT TO DRIVE THE OVERALL THERMOPLASTIC COMPOSITES MARKET BETWEEN 2020 AND 2025

FIGURE 5 TRANSPORTATION IS THE BIGGEST CONSUMER OF THERMOPLASTIC COMPOSITES IN 2019

FIGURE 6 GLASS FIBER COMPOSITES TO DOMINATE OVERALL THERMOPLASTIC COMPOSITES MARKET

FIGURE 7 POLYAMIDE RESIN LED THE OVERALL THERMOPLASTIC COMPOSITES MARKET IN 2019

FIGURE 8 CHINA TO BE THE FASTEST-GROWING THERMOPLASTIC COMPOSITES MARKET

FIGURE 9 APAC ACCOUNTED FOR THE LARGEST SHARE OF THE GLOBAL THERMOPLASTIC COMPOSITES MARKET, IN 2019

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES IN THE THERMOPLASTIC COMPOSITES MARKET

FIGURE 10 HIGH DEMAND FROM TRANSPORTATION APPLICATION TO DRIVE THE MARKET

4.2 THERMOPLASTIC COMPOSITES MARKET, BY END-USE INDUSTRY AND REGION

FIGURE 11 APAC ACCOUNTED FOR THE LARGEST MARKET SHARE

4.3 THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE

FIGURE 12 SFT SEGMENT TO BE DOMINATE THE OVERALL THERMOPLASTIC COMPOSITES MARKET

4.4 THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE

FIGURE 13 POLYAMIDE ACCOUNTS FOR THE LARGEST SHARE OF THE OVERALL THERMOPLASTIC COMPOSITES MARKET

4.5 THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE

FIGURE 14 GLASS SEGMENT DOMINATES THE OVERALL THERMOPLASTIC COMPOSITES MARKET

4.6 THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY

FIGURE 15 CHINA TO REGISTER THE HIGHEST CAGR IN THE THERMOPLASTIC COMPOSITES MARKET

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 16 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN THERMOPLASTIC COMPOSITES MARKET

5.2.1 DRIVERS

5.2.1.1 Increasing demand for thermoplastic composites in end-use industries

5.2.1.2 Government stimulus packages to drive the thermoplastic composites market post COVID-19

5.2.1.3 Tax incentives to drive the demand for thermoplastic composites in the wind energy sector

5.2.1.4 Low crude oil prices to partially offset the impact of COVID-19

5.2.2 RESTRAINTS

5.2.2.1 High cost of raw materials

5.2.2.2 Difficulty in fiber-reinforcement

5.2.2.3 Disruption in supply chain and logistics due to COVID-19

5.2.2.4 Lower capacity utilization and liquidity crunch due to COVID-19

5.2.3 OPPORTUNITIES

5.2.3.1 Increasing demand for thermoplastic composites from emerging countries

5.2.3.2 Growing market for electric vehicles

5.2.3.3 Growing adoption of natural thermoplastic composites

5.2.4 CHALLENGES

5.2.4.1 Development of low-cost production technology

6 INDUSTRY TRENDS

6.1 PORTER'S FIVE FORCES ANALYSIS

FIGURE 17 PORTER'S FIVE FORCES ANALYSIS: THERMOPLASTIC COMPOSITES MARKET

6.1.1 THREAT OF NEW ENTRANTS

6.1.2 THREAT OF SUBSTITUTES

6.1.3 BARGAINING POWER OF SUPPLIERS

6.1.4 BARGAINING POWER OF BUYERS

6.1.5 INTENSITY OF COMPETITIVE RIVALRY

6.2 COMPOSITES INDUSTRY ECOSYSTEM

FIGURE 18 COMPOSITES INDUSTRY ECOSYSTEM

6.3 VALUE CHAIN ANALYSIS AND IMPACT OF COVID-19

6.3.1 RAW MATERIALS

6.3.2 INTERMEDIATES

6.3.3 MOLDER

6.3.4 OEM/ASSEMBLY
6.4 PRICING ANALYSIS

7 MACROECONOMIC OVERVIEW AND KEY TRENDS

7.1 INTRODUCTION

7.1.1 TRENDS AND FORECAST OF GDP

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

7.1.2 IMPACT OF COVID-19 ON THE AEROSPACE INDUSTRY

TABLE 2 NUMBER OF AIRPLANE DELIVERIES, BY MANUFACTURER, 2019

7.1.2.1 Short-term strategies to manage cost structure and supply chains

7.1.2.2 New opportunities

7.2 IMPACT OF COVID-19 ON THE AUTOMOTIVE INDUSTRY

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

7.2.2 IMPACT ON ELECTRIC VEHICLE (EV) DEMAND DUE TO LOWER OIL PRICES

7.2.3 NEW OPPORTUNITIES

7.3 IMPACT OF COVID-19 ON THE WIND ENERGY INDUSTRY

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

7.3.2 NEW OPPORTUNITIES

8 THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE

8.1 INTRODUCTION

FIGURE 19 PEEK-BASED THERMOPLASTIC COMPOSITES MARKET TO REGISTER THE HIGHEST CAGR

TABLE 3 THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (USD MILLION)

TABLE 4 THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (KILOTON)

TABLE 5 THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (USD MILLION)

TABLE 6 THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (KILOTON)

8.2 IMPACT OF COVID-19 PANDEMIC THERMOPLASTIC RESIN-BASED COMPOSITES MARKET

8.3 POLYAMIDE (PA)

8.3.1 RESISTANCE TO WEAR, HEAT, AND CHEMICALS, AND GOOD FRICTION, AMONG OTHER SUPERIOR PROPERTIES, ARE SUPPORTING THE GROWTH OF THE POLYAMIDE SEGMENT OF THE MARKET

FIGURE 20 APAC TO LEAD THE POLYAMIDE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET

TABLE 7 POLYAMIDE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 8 POLYAMIDE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 9 POLYAMIDE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 10 POLYAMIDE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

8.4 POLYPROPYLENE (PP)

8.4.1 POLYPROPYLENE-BASED THERMOPLASTIC COMPOSITES HAVE A HUGE DEMAND IN AUTOMOTIVE APPLICATIONS

TABLE 11 POLYPROPYLENE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 12 POLYPROPYLENE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 13 POLYPROPYLENE THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 14 POLYPROPYLENE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

8.5 POLYETHERETHERKETONE (PEEK)

8.5.1 AS A HIGH-TEMPERATURE THERMOPLASTIC MATERIAL, PEEK FINDS EXTENSIVE USE IN AEROSPACE & DEFENSE APPLICATIONS

TABLE 15 POLYETHERETHERKETONE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 16 POLYETHERETHERKETONE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 17 POLYETHERETHERKETONE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 18 POLYETHERETHERKETONE RESIN-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

8.6 HYBRID

8.6.1 THE PRODUCTION OF HYBRID (BLEND OF TWO RESINS) THERMOPLASTIC COMPOSITES IS INCREASING, WITH A FEW MAJOR MARKET PLAYERS OFFERING SUCH COMPOSITES

TABLE 19 HYBRID THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 20 HYBRID THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 21 HYBRID THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 22 HYBRID THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

8.7 OTHERS

TABLE 23 OTHER RESINS-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 24 OTHER RESINS-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 25 OTHER RESINS-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 26 OTHER RESINS-BASED THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

9 THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE

9.1 INTRODUCTION

FIGURE 21 SHORT FIBER THERMOPLASTIC TO ACCOUNT FOR THE LARGEST SHARE

IN THE THERMOPLASTIC COMPOSITES MARKET

TABLE 27 THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (USD MILLION)

TABLE 28 THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (KILOTON)

TABLE 29 THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (USD MILLION)

TABLE 30 THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (KILOTON)

9.2 IMPACT OF COVID-19 ON THERMOPLASTIC COMPOSITES PRODUCT TYPE

9.3 SHORT FIBER THERMOPLASTIC

9.3.1 SHORT FIBER THERMOPLASTIC HAS MAJOR SHARE IN THE THERMOPLASTIC COMPOSITES MARKET

TABLE 31 SHORT FIBER THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 32 SHORT FIBER THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019

(KILOTON)

TABLE 33 SHORT FIBER THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 34 SHORT FIBER THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

9.4 LONG FIBER THERMOPLASTIC

9.4.1 LONG FIBER THERMOPLASTIC HAS GOOD MECHANICAL PROPERTIES AND TOUGHNESS AND IS EXTENSIVELY USED IN THE AUTOMOTIVE INDUSTRY

TABLE 35 LONG FIBER THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 36 LONG FIBER THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 37 LONG FIBER THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 38 LONG FIBER THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

9.5 CONTINUOUS FIBER THERMOPLASTIC

9.5.1 NORTH AMERICA ACCOUNTS FOR MAJOR SHARE IN THE CONTINUOUS FIBER THERMOPLASTIC COMPOSITES MARKET

TABLE 39 CONTINUOUS FIBER THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 40 CONTINUOUS FIBER THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 41 CONTINUOUS FIBER THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 42 CONTINUOUS THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

9.6 GLASS MAT THERMOPLASTIC

9.6.1 GLASS MAT THERMOPLASTIC IS AN ESTABLISHED TECHNOLOGY WITH APPLICATIONS IN AUTOMOTIVE INDUSTRY

TABLE 43 GLASS MAT THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 44 GLASS MAT THERMOPLASTIC MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 45 GLASS MAT THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 46 GLASS MAT THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

10 THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE

10.1 INTRODUCTION

FIGURE 22 CARBON TO REGISTER THE HIGHEST GROWTH IN THE THERMOPLASTIC COMPOSITES MARKET BETWEEN 2020 AND 2025

TABLE 47 THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (USD MILLION)

TABLE 48 THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (KILOTON)

TABLE 49 THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (USD MILLION)

TABLE 50 THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (KILOTON)

10.2 IMPACT OF COVID-19 PANDEMIC ON THERMOPLASTIC COMPOSITES FIBER TYPES

10.3 GLASS

10.3.1 GLASS FIBERS ARE THE MOST COMMONLY USED REINFORCEMENT ELEMENT IN THE THERMOPLASTIC COMPOSITES MARKET

FIGURE 23 APAC TO LEAD THE GLASS FIBER-REINFORCED THERMOPLASTIC COMPOSITES MARKET BETWEEN 2020 AND 2025

TABLE 51 GLASS: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 52 GLASS: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 53 GLASS: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 54 GLASS: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

10.4 CARBON

10.4.1 CARBON FIBER-REINFORCED THERMOPLASTIC COMPOSITES PROVIDE MAXIMUM STRENGTH AND PERFORMANCE WITH MINIMUM WEIGHT

TABLE 55 CARBON: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 56 CARBON: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 57 CARBON: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 58 CARBON: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

10.5 MINERAL

10.5.1 MINERAL-REINFORCED THERMOPLASTIC COMPOSITES ARE WIDELY USED

IN AUTOMOTIVE PARTS

TABLE 59 MINERAL: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 60 MINERAL: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 61 MINERAL: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 62 MINERAL: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

10.6 OTHERS

TABLE 63 OTHER FIBER TYPES: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 64 OTHER FIBER TYPES: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 65 OTHER FIBER TYPES: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 66 OTHER FIBER TYPES: THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

11 THERMOPLASTIC COMPOSITES MARKET, BY END-USE INDUSTRY

11.1 INTRODUCTION

FIGURE 24 TRANSPORTATION TO LEAD THE THERMOPLASTIC COMPOSITES MARKET

TABLE 67 THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (USD MILLION)

TABLE 68 THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (KILOTON)

TABLE 69 THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (USD MILLION)

TABLE 70 THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (KILOTON)

11.2 IMPACT OF COVID-19 ON END-USE INDUSTRIES

11.2.1 AUTOMOTIVE

11.2.2 AEROSPACE

11.2.3 WIND ENERGY

11.3 TRANSPORTATION

11.3.1 DEMAND FOR THERMOPLASTIC COMPOSITES IN TRANSPORTATION IS PROJECTED TO RISE, EXPONENTIALLY

11.3.2 AUTOMOTIVE

11.3.3 HEAVY VEHICLES

11.3.4 RAIL

FIGURE 25 APAC TO DRIVE THE THERMOPLASTIC COMPOSITES MARKET IN TRANSPORTATION APPLICATION

TABLE 71 THERMOPLASTIC COMPOSITES MARKET SIZE IN TRANSPORTATION, BY REGION, 2016–2019 (USD MILLION)

TABLE 72 THERMOPLASTIC COMPOSITES MARKET SIZE IN TRANSPORTATION, BY REGION, 2016–2019 (KILOTON)

TABLE 73 THERMOPLASTIC COMPOSITES MARKET SIZE IN TRANSPORTATION, BY REGION, 2020–2025 (USD MILLION)

TABLE 74 THERMOPLASTIC COMPOSITES MARKET SIZE IN TRANSPORTATION, BY REGION, 2020–2025 (KILOTON)

11.4 CONSUMER GOODS & ELECTRONICS

11.4.1 HIGH DEMAND FROM APAC IS DRIVING THE GROWTH OF THE MARKET IN CONSUMER GOODS & ELECTRONICS

TABLE 75 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSUMER GOODS & ELECTRONICS, BY REGION, 2016–2019 (USD MILLION)

TABLE 76 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSUMER GOODS & ELECTRONICS, BY REGION, 2016–2019 (KILOTON)

TABLE 77 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSUMER GOODS & ELECTRONICS, BY REGION, 2020–2025 (USD MILLION)

TABLE 78 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSUMER GOODS & ELECTRONICS, BY REGION, 2020–2025 (KILOTON)

11.5 AEROSPACE & DEFENSE

11.5.1 EUROPE ACCOUNTS FOR MAJOR SHARE IN THE AEROSPACE & DEFENSE APPLICATION

TABLE 79 NUMBER OF NEW COMMERCIAL AIRPLANE DELIVERIES, BY REGION (2019–2038)

TABLE 80 CARBON FIBER CONSUMPTION PER AIRCRAFT, 2018 (TON)

TABLE 81 TREND OF KEY CARBON FIBER CONSUMING COMMERCIAL AIRCRAFT PRODUCTION (2017–2024)

TABLE 82 THERMOPLASTIC COMPOSITES MARKET SIZE IN AEROSPACE & DEFENSE, BY REGION, 2016–2019 (USD MILLION)

TABLE 83 THERMOPLASTIC COMPOSITES MARKET SIZE IN AEROSPACE & DEFENSE, BY REGION, 2016–2019 (KILOTON)

TABLE 84 THERMOPLASTIC COMPOSITES MARKET SIZE IN AEROSPACE & DEFENSE, BY REGION, 2020–2025 (USD MILLION)

TABLE 85 THERMOPLASTIC COMPOSITES MARKET SIZE IN AEROSPACE & DEFENSE, 2020–2025 (KILOTON)

11.6 SPORTS & LEISURE

11.6.1 SUPERIOR PROPERTIES OF THERMOPLASTIC COMPOSITES ARE DRIVING

THE GROWTH IN THE SPORTS & LEISURE APPLICATION

TABLE 86 THERMOPLASTIC COMPOSITES MARKET SIZE IN SPORTS & LEISURE, BY REGION, 2016–2019 (USD MILLION)

TABLE 87 THERMOPLASTIC COMPOSITES MARKET SIZE IN SPORTS & LEISURE, BY REGION, 2016–2019 (KILOTON)

TABLE 88 THERMOPLASTIC COMPOSITES MARKET SIZE IN SPORTS & LEISURE, BY REGION, 2020–2025 (USD MILLION)

TABLE 89 THERMOPLASTIC COMPOSITES MARKET SIZE IN SPORTS & LEISURE, BY REGION, 2020–2025 (KILOTON)

11.7 CONSTRUCTION

11.7.1 APAC IS THE FASTEST-GROWING MARKET OF THERMOPLASTIC COMPOSITES IN CONSTRUCTION APPLICATION

TABLE 90 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSTRUCTION, BY REGION, 2016–2019 (USD MILLION)

TABLE 91 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSTRUCTION, BY REGION, 2016–2019 (KILOTON)

TABLE 92 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSTRUCTION, BY REGION, 2020–2025 (USD MILLION)

TABLE 93 THERMOPLASTIC COMPOSITES MARKET SIZE IN CONSTRUCTION, BY REGION, 2020–2025 (KILOTON)

11.8 WIND ENERGY

11.8.1 DEMAND FOR RENEWABLE ENERGY IS RESPONSIBLE FOR THE GROWING CONSUMPTION IN THE WIND ENERGY APPLICATION

TABLE 94 THERMOPLASTIC COMPOSITES MARKET SIZE IN WIND ENERGY, BY REGION, 2016–2019 (USD MILLION)

TABLE 95 THERMOPLASTIC COMPOSITES MARKET SIZE IN WIND ENERGY, BY REGION, 2016–2019 (KILOTON)

TABLE 96 THERMOPLASTIC COMPOSITES MARKET SIZE IN WIND ENERGY, BY REGION, 2020–2025 (USD MILLION)

TABLE 97 THERMOPLASTIC COMPOSITES MARKET SIZE IN WIND ENERGY, 2020–2025 (KILOTON)

11.9 OTHERS

TABLE 98 THERMOPLASTIC COMPOSITES MARKET IN OTHER INDUSTRIES, BY REGION, 2016–2019 (USD MILLION)

TABLE 99 THERMOPLASTIC COMPOSITES MARKET IN OTHER INDUSTRIES, BY REGION, 2016–2019 (KILOTON)

TABLE 100 THERMOPLASTIC COMPOSITES MARKET SIZE IN OTHER INDUSTRIES, BY REGION, 2020–2025 (USD MILLION)

TABLE 101 THERMOPLASTIC COMPOSITES MARKET SIZE IN OTHER INDUSTRIES, 2020–2025 (KILOTON)

12 REGIONAL ANALYSIS

12.1 INTRODUCTION

12.2 REGIONAL IMPACT OF COVID-19

FIGURE 26 CHINA TO BE THE FASTEST-GROWING THERMOPLASTIC COMPOSITES MARKET BETWEEN 2020 AND 2025

TABLE 102 THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (USD MILLION)

TABLE 103 THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2016–2019 (KILOTON)

TABLE 104 THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (USD MILLION)

TABLE 105 THERMOPLASTIC COMPOSITES MARKET SIZE, BY REGION, 2020–2025 (KILOTON)

12.3 NORTH AMERICA

FIGURE 27 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SNAPSHOT

12.3.1 NORTH AMERICA, BY RESIN TYPE

12.3.1.1 PA resin to lead the North American thermoplastic composites market

TABLE 106 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (USD MILLION)

TABLE 107 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (KILOTON)

TABLE 108 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (USD MILLION)

TABLE 109 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (KILOTON)

12.3.2 NORTH AMERICA, BY FIBER TYPE

12.3.2.1 Glass to lead the North American thermoplastic composites market

TABLE 110 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (USD MILLION)

TABLE 111 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (KILOTON)

TABLE 112 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (USD MILLION)

TABLE 113 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (KILOTON)

12.3.3 NORTH AMERICA, BY PRODUCT TYPE

12.3.3.1 SFT to lead the North American thermoplastic composites market

TABLE 114 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (USD MILLION)

TABLE 115 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (KILOTON)

TABLE 116 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (USD MILLION)

TABLE 117 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (KILOTON)

12.3.4 NORTH AMERICA, BY END-USE INDUSTRY

12.3.4.1 Transportation to lead the North American thermoplastic composites market

TABLE 118 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (USD MILLION)

TABLE 119 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (KILOTON)

TABLE 120 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (USD MILLION)

TABLE 121 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (KILOTON)

12.3.5 NORTH AMERICA, BY COUNTRY

TABLE 122 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (USD MILLION)

TABLE 123 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (KILOTON)

TABLE 124 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY 2020–2025 (USD MILLION)

TABLE 125 NORTH AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (KILOTON)

12.3.5.1 US

12.3.5.1.1 High demand from aerospace & defense application is driving the market in North America

12.3.5.2 Canada

12.3.5.2.1 Transportation application to drive the market in Canada

12.4 EUROPE

FIGURE 28 EUROPE: THERMOPLASTIC COMPOSITES MARKET SNAPSHOT

12.4.1 EUROPE, BY RESIN TYPE

12.4.1.1 PEEK to register the highest CAGR in the European thermoplastic composites market

TABLE 126 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (USD MILLION)

TABLE 127 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (KILOTON)

TABLE 128 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (USD MILLION)

TABLE 129 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (KILOTON)

12.4.2 EUROPE, BY FIBER TYPE

12.4.2.1 Carbon fiber thermoplastic composites to register the highest CAGR during the forecast period

TABLE 130 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (USD MILLION)

TABLE 131 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (KILOTON)

TABLE 132 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (USD MILLION)

TABLE 133 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (KILOTON)

12.4.3 EUROPE, BY PRODUCT TYPE

12.4.3.1 LFT to register the highest CAGR in the thermoplastic composites market during the forecast period

TABLE 134 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (USD MILLION)

TABLE 135 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (KILOTON)

TABLE 136 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (USD MILLION)

TABLE 137 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (KILOTON)

12.4.4 EUROPE, BY END-USE INDUSTRY

12.4.4.1 Commercialization of thermoplastic composites in the aerospace & defense application to drive its use in the region

TABLE 138 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (USD MILLION)

TABLE 139 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (KILOTON)

TABLE 140 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (USD MILLION)

TABLE 141 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (KILOTON)

12.4.5 EUROPE, BY COUNTRY

TABLE 142 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (USD MILLION)

TABLE 143 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (KILOTON)

TABLE 144 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY

2020–2025 (USD MILLION)

TABLE 145 EUROPE: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (KILOTON)

12.4.5.1 Germany

12.4.5.1.1 Germany is the biggest consumer of thermoplastic composites in the European region

12.4.5.2 France

12.4.5.2.1 The aerospace & defense application to drive the market in the country

12.4.5.3 UK

12.4.5.3.1 The UK is the third-largest market for thermoplastic composites in Europe

12.4.5.4 Italy

12.4.5.4.1 Presence of major automotive manufacturers to drive the market in the country

12.4.5.5 Rest of Europe

12.5 APAC

FIGURE 29 APAC: THERMOPLASTIC COMPOSITES MARKET SNAPSHOT

12.5.1 APAC, BY RESIN TYPE

12.5.1.1 PA to drive the thermoplastic composites market in the APAC

TABLE 146 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (USD MILLION)

TABLE 147 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (KILOTON)

TABLE 148 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (USD MILLION)

TABLE 149 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (KILOTON)

12.5.2 APAC, BY FIBER TYPE

12.5.2.1 Glass to lead the thermoplastic composites market in the APAC

TABLE 150 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (USD MILLION)

TABLE 151 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (KILOTON)

TABLE 152 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (USD MILLION)

TABLE 153 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (KILOTON)

12.5.3 APAC, BY PRODUCT TYPE

12.5.3.1 SFT to lead thermoplastic composites market in the APAC

TABLE 154 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (USD MILLION)

TABLE 155 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (KILOTON)

TABLE 156 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (USD MILLION)

TABLE 157 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (KILOTON)

12.5.4 APAC, BY END-USE INDUSTRY

12.5.4.1 Transportation Application to drive the market

TABLE 158 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (USD MILLION)

TABLE 159 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (KILOTON)

TABLE 160 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (USD MILLION)

TABLE 161 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (KILOTON)

12.5.5 APAC, BY COUNTRY

TABLE 162 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (USD MILLION)

TABLE 163 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (KILOTON)

TABLE 164 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (USD MILLION)

TABLE 165 APAC: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (KILOTON)

12.5.5.1 China

12.5.5.1.1 Sustainable economic growth and technological advancements in electronics to drive the market

12.5.5.2 Japan

12.5.5.2.1 Japan is the second-largest market in APAC

12.5.5.3 South Korea

12.5.5.3.1 Growing use of glass fiber in thermoplastic composites to drive the market

12.5.5.4 India

12.5.5.4.1 Increased demand for vehicles in the country to drive the market growth

12.5.5.5 Rest of APAC

12.6 LATIN AMERICA

12.6.1 LATIN AMERICA, BY RESIN TYPE

12.6.1.1 PA accounts for the largest share in thermoplastic composites market in Latin America

TABLE 166 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (USD MILLION)

TABLE 167 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (KILOTON)

TABLE 168 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (USD MILLION)

TABLE 169 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (KILOTON)

12.6.2 LATIN AMERICA, BY FIBER TYPE

12.6.2.1 Carbon fiber thermoplastic composites to register the highest CAGR

TABLE 170 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (USD MILLION)

TABLE 171 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (KILOTON)

TABLE 172 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (USD MILLION)

TABLE 173 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (KILOTON)

12.6.3 LATIN AMERICA, BY PRODUCT TYPE

12.6.3.1 SFT to lead thermoplastic composites market in Latin America

TABLE 174 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (USD MILLION)

TABLE 175 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (KILOTON)

TABLE 176 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (USD MILLION)

TABLE 177 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (KILOTON)

12.6.4 LATIN AMERICA, BY END-USE INDUSTRY

12.6.4.1 Transportation to drive the market

TABLE 178 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (USD MILLION)

TABLE 179 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (KILOTON)

TABLE 180 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (USD MILLION)

TABLE 181 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (KILOTON)

12.6.5 LATIN AMERICA, BY COUNTRY

TABLE 182 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (USD MILLION)

TABLE 183 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (KILOTON)

TABLE 184 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (USD MILLION)

TABLE 185 LATIN AMERICA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (KILOTON)

12.6.5.1 Brazil

12.6.5.1.1 Growing investment in the transportation industry to drive the market

12.6.5.2 Mexico

12.6.5.2.1 Mexico is the largest consumer of thermoplastic composites in Latin America

12.6.5.3 Rest of Latin America

12.7 MEA

12.7.1 MEA, BY RESIN TYPE

12.7.1.1 PEEK to register the highest CAGR in thermoplastic composites market in the MEA

TABLE 186 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (USD MILLION)

TABLE 187 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2016–2019 (KILOTON)

TABLE 188 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (USD MILLION)

TABLE 189 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY RESIN TYPE, 2020–2025 (KILOTON)

12.7.2 MEA, BY FIBER TYPE

12.7.2.1 Glass to lead the thermoplastic composites in the MEA

TABLE 190 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (USD MILLION)

TABLE 191 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2016–2019 (KILOTON)

TABLE 192 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (USD MILLION)

TABLE 193 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY FIBER TYPE, 2020–2025 (KILOTON)

12.7.3 MEA, BY PRODUCT TYPE

12.7.3.1 SFT to lead thermoplastic composites market in the MEA

TABLE 194 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (USD MILLION)

TABLE 195 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2016–2019 (KILOTON)

TABLE 196 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (USD MILLION)

TABLE 197 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY PRODUCT TYPE, 2020–2025 (KILOTON)

12.7.4 MEA, BY END-USE INDUSTRY

12.7.4.1 Transportation Application to drive the market

TABLE 198 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (USD MILLION)

TABLE 199 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2016–2019 (KILOTON)

TABLE 200 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE INDUSTRY, 2020–2025 (USD MILLION)

TABLE 201 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY END-USE

INDUSTRY, 2020–2025 (KILOTON)

12.7.5 MEA, BY COUNTRY

TABLE 202 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (USD MILLION)

TABLE 203 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2016–2019 (KILOTON)

TABLE 204 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (USD MILLION)

TABLE 205 MEA: THERMOPLASTIC COMPOSITES MARKET SIZE, BY COUNTRY, 2020–2025 (KILOTON)

12.7.5.1 UAE

12.7.5.1.1 Increasing consumption of thermoplastic composites in the transportation and electrical & electronics industries

12.7.5.2 Saudi Arabia

12.7.5.2.1 Saudi Arabia is the largest market in the region

12.7.5.3 Rest of MEA

13 COMPETITIVE LANDSCAPE

13.1 INTRODUCTION

FIGURE 30 COMPANIES ADOPTED NEW PRODUCT DEVELOPMENT AS THE KEY GROWTH STRATEGY BETWEEN 2015 AND 2019

13.2 COMPETITIVE LEADERSHIP MAPPING (OVERALL MARKET)

13.2.1 DYNAMIC DIFFERENTIATORS

13.2.2 INNOVATORS

13.2.3 VISIONARY LEADERS

13.2.4 EMERGING COMPANIES

FIGURE 31 THERMOPLASTIC COMPOSITES MARKET (GLOBAL) COMPETITIVE LEADERSHIP MAPPING, 2018

13.3 COMPETITIVE BENCHMARKING

13.3.1 STRENGTH OF PRODUCT PORTFOLIO

FIGURE 32 PRODUCT PORTFOLIO ANALYSIS OF TOP PLAYERS IN THERMOPLASTIC COMPOSITES MARKET

13.3.2 BUSINESS STRATEGY EXCELLENCE

FIGURE 33 BUSINESS STRATEGY EXCELLENCE OF TOP PLAYERS IN THERMOPLASTIC COMPOSITES MARKET

13.4 MARKET RANKING OF KEY PLAYERS, 2019

13.5 MARKET SHARE ANALYSIS OF KEY PLAYERS, 2019

13.6 COMPETITIVE SCENARIO

13.6.1 NEW PRODUCT DEVELOPMENT

TABLE 206 NEW PRODUCT DEVELOPMENTS, 2015–2019

13.6.2 INVESTMENT & EXPANSION

TABLE 207 INVESTMENTS & EXPANSIONS, 2015–2019

13.6.3 MERGER & ACQUISITION

TABLE 208 MERGERS & ACQUISITIONS, 2015–2019

13.6.4 JOINT VENTURE & PARTNERSHIP

TABLE 209 JOINT VENTURES AND PARTNERSHIPS, 2015–2019

14 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)*

14.1 CELANESE CORPORATION

FIGURE 34 CELANESE CORPORATION: COMPANY SNAPSHOT

FIGURE 35 CELANESE CORPORATION: SWOT ANALYSIS

14.2 DOWDUPONT INC.

FIGURE 36 DOWDUPONT INC.: COMPANY SNAPSHOT

14.3 KONINKLIJKE DSM N.V.

FIGURE 37 KONINKLIJKE DSM N.V.: COMPANY SNAPSHOT

14.4 TORAY INDUSTRIES, INC.

FIGURE 38 TORAY INDUSTRIES, INC.: COMPANY SNAPSHOT

14.5 SABIC

FIGURE 39 SABIC: COMPANY SNAPSHOT

FIGURE 40 SABIC: SWOT ANALYSIS

14.6 LANXESS AG

FIGURE 41 LANXESS AG: COMPANY SNAPSHOT

FIGURE 42 LANXESS AG: SWOT ANALYSIS

14.7 SOLVAY S.A.

FIGURE 43 SOLVAY S.A.: COMPANY SNAPSHOT

FIGURE 44 SOLVAY S.A.: SWOT ANALYSIS

14.8 BASF SE

FIGURE 45 BASF SE: COMPANY SNAPSHOT

FIGURE 46 BASF SE: SWOT ANALYSIS

14.9 POLYONE CORPORATION

FIGURE 47 POLYONE CORPORATION: COMPANY SNAPSHOT

14.10 MITSUBISHI CHEMICAL ADVANCED MATERIALS

14.11 OTHER COMPANIES

14.11.1 COVESTRO AG

- 14.11.2 VICTREX PLC
- 14.11.3 SGL GROUP
- 14.11.4 TECHNOCOMPOUND GMBH
- 14.11.5 SUPREM SA
- 14.11.6 KINGFA SCI. & TECH. CO., LTD
- 14.11.7 SBHPP
- 14.11.8 DAICEL POLYMER LTD.
- 14.11.9 RTP COMPANY
- 14.11.10 ASCEND PERFORMANCE MATERIALS LLC

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

15 APPENDIX

- 15.1 DISCUSSION GUIDE
- 15.2 KNOWLEDGE STORE: MARKETSandMARKETS SUBSCRIPTION PORTAL
- 15.3 AVAILABLE CUSTOMIZATIONS
- 15.4 RELATED REPORTS
- 15.5 AUTHOR DETAILS

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