

Thermoplastic Composites Market by Fiber Type (Carbon, Glass, Mineral, and Others), Resin Type (PA, PP, PEEK, Hybrid, Others), Product Type (Glass Mat Thermoplastics (GMT), advanced thermoplastic composites (ATC)), and Applications (Oil & Gas, Aerospace, Marine, Construction, Military, and Others): Global Opportunity Analysis and Industry Forecast, 2020–2027

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Abstracts

The global thermoplastic composites market was valued at \$15.2 billion in 2019, and is projected to reach \$22.8 billion by 2027, growing at a CAGR of 6.1% from 2020 to 2027.

Composite materials are formed by combining a resin matrix, armature and operational additives. There are two types of composites – thermoset and thermoplastic composites. Thermoplastic composites developed from structural polymer composites. They are solidified through a reversible thermal curing process. In term of physical properties, thermoplastic composites have low density, better insulation, environmental resistance, better mechanical properties, and they can be chemically unstable. Further, they are thermoformable, heat-weldable and recyclable. Owing to its superior physicochemical properties, thermoplastic composites are widely utilized in various end-use industries such as aerospace & defense, construction, automotive, healthcare, and among others.

The global thermoplastic composites market is presently driven by various factors such as growing demand from the aerospace industry, use of composites for making lightweight automotive parts, and upsizing of wind turbine blades for generating more

power in onshore & offshore wind power plants. In the aerospace and automotive industry, lightweight composites reduce the overall weight of the vehicle. This has a direct positive impact on fuel efficiency. Higher fuel efficiency contributes to higher emission control regulations set by various organizations. Moreover, in the automotive industry, the rising replacement of conventional internal combustion engine vehicles (ICs) with electric vehicles (EVs) and hybrid electric vehicles (HEVs) is anticipated to boost the global thermoplastic composites market during the forecast period. EVs and HEVs require lightweight parts that will extend the range.

On the contrary, the high cost of thermoplastic composites is expected to hamper the growth of the market during the forecast period. Carbon fiber composites manufacturing is a highly expensive and complex process. The cost of carbon fiber production accounts for more than 20.0% of the manufacturing costs of steel composites used in the automotive and aviation industries. The precursors that make up a fiber's backbone are usually based on pitch and polyacrylonitrile (PAN). Approximately 90% of the carbon fiber manufactured in the market is made from precursors based on PAN. Such precursors are expensive and cost around \$15/lb, which makes the process costly overall. The quality and type of precursor used often affects the consistency and characteristics of the resulting carbon fiber, making it important to use precursors based on high consistency PAN.

The global thermoplastic composites market is segmented into fiber type, product type, resin type, end-user industry, and region. On the basis of fiber type, the thermoplastic composites market is divided into carbon, glass, mineral, and others. Based on resin type, the market is bifurcated into glass mat thermoplastics (GMT) and advanced thermoplastic composites (ATC). On the basis of resin type, the thermoplastic composites market is segmented into PA, PP, PEEK, Hybrid, and others. Depending on applications, the market is fragmented into oil & gas, construction, aerospace and defense, automotive, marine, aerospace & defense, military, and others. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

Presently, North America accounts for the largest revenue share in the thermoplastic composites market, followed by Europe and Asia-Pacific. The major companies profiled in this report include BASF SE, Celanese Corporation, DSM, DuPont, Hanwha, Lanxess, Mitsubishi Chemical Advanced Materials, PPG Industries, SABIC, and Solvay S.A. The global Thermoplastic Composites market report provides in-depth competitive analysis as well as profiles of these major players.

1.1. Key benefits for stakeholders

Porter's five forces analysis helps to analyze the potential of buyers & suppliers and the competitive scenario of the industry for strategy building.

It outlines the current trends and future estimations of the thermoplastic composites market from 2019 to 2027 to understand the prevailing opportunities and potential investment pockets.

The major countries in the region have been mapped according to their individual revenue contribution to the regional market.

The key drivers, restraints, & opportunities and their detailed impact analysis are explained in the study.

The profiles of key players and their key strategic developments are enlisted in the report.

1.2. KEY MARKET SEGMENTS

By Fiber Type

Glass

Carbon

Mineral

Others

By Product Type

Glass Mat Thermoplastics (GMT)

Advanced Thermoplastic Composites (ATC)

By Resin Type

PA

PP

PEEK

Hybrid

Others

By Applications

Oil and gas

Aerospace & Defense

Marine

Construction

Military

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

UK

Spain

Italy

Rest of Europe

Asia-Pacific

India

China

Japan

Korea

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key players in the global Thermoplastic Composites market are:

1. BASF SE
2. Celanese Corporation
3. DSM
4. DuPont
5. Hanwha
6. Lanxness
7. Mitsubishi Chemical Advanced Materials
8. PPG Industries
9. SABIC
10. Solvay S.A.

Contents

CHAPTER 1:INTRODUCTION

- 1.1.Report description
- 1.2.Key benefits for stakeholders
- 1.3.Key market segments
- 1.4.Research methodology
 - 1.4.1.Secondary research
 - 1.4.2.Primary research
- 1.5.Analyst tools and models

CHAPTER 2:EXECUTIVE SUMMARY

- 2.1.Key findings of the study
- 2.2.CXO perspective

CHAPTER 3:MARKET OVERVIEW

- 3.1.Market definition and scope
- 3.2.Key findings
 - 3.2.1.Top investment pockets
- 3.3.Porter's five forces analysis
- 3.4.Market dynamics
 - 3.4.1.Drivers
 - 3.4.1.1.Rise in demand from the transportation industry to drive the demand for composites
 - 3.4.1.2.Emerging end-use applications of fiber composites
 - 3.4.2.Restrictant
 - 3.4.2.1.High cost of raw materials
 - 3.4.3.Opportunity
 - 3.4.3.1.Growing market for electric vehicles
- 3.5.Patent analysis, 2015–2020
 - 3.5.1.Patent analysis, by country
- 3.6.Impact of government rules and regulations
- 3.7.Impact of Corona (COVID 19) outbreak on the thermoplastic composites market
- 3.8.Pricing analysis

CHAPTER 4:THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE

Thermoplastic Composites Market by Fiber Type (Carbon, Glass, Mineral, and Others), Resin Type (PA, PP, PEEK,...

4.1.Overview

4.1.1.Market size and forecast

4.2.Glass

4.2.1.Key market trends, growth factors, and opportunities

4.2.2.Market size and forecast, by region

4.2.3.Market share analysis, by country

4.3.Carbon

4.3.1.Key market trends, growth factors, and opportunities

4.3.2.Market size and forecast, by region

4.3.3.Market share analysis, by country

4.4.Mineral

4.4.1.Key market trends, growth factors, and opportunities

4.4.2.Market size and forecast, by region

4.4.3.Market share analysis, by country

4.5.Others

4.5.1.Key market trends, growth factors, and opportunities

4.5.2.Market size and forecast, by region

4.5.3.Market share analysis, by country

CHAPTER 5:THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE

5.1.Overview

5.1.1.Market size and forecast

5.2.Glass mat thermoplastics (GMT)

5.2.1.Key market trends, growth factors, and opportunities

5.2.2.Market size and forecast, by region

5.2.3.Market share analysis, by country

5.3.Advanced thermoplastic composites (ATC)

5.3.1.Key market trends, growth factors, and opportunities

5.3.2.Market size and forecast, by region

5.3.3.Market share analysis, by country

CHAPTER 6:THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE

6.1.Overview

6.1.1.Market size and forecast

6.2.PA

6.2.1.Key market trends, growth factors, and opportunities

6.2.2.Market size and forecast, by region

6.2.3.Market share analysis, by country

6.3.PP

6.3.1.Key market trends, growth factors, and opportunities

6.3.2.Market size and forecast, by region

6.3.3.Market share analysis, by country

6.4.PEEK

6.4.1.Key market trends, growth factors, and opportunities

6.4.2.Market size and forecast, by region

6.4.3.Market share analysis, by country

6.5.Hybrid

6.5.1.Key market trends, growth factors, and opportunities

6.5.2.Market size and forecast, by region

6.5.3.Market share analysis, by country

6.6.Others

6.6.1.Key market trends, growth factors, and opportunities

6.6.2.Market size and forecast, by region

6.6.3.Market share analysis, by country

CHAPTER 7:THERMOPLASTIC COMPOSITES MARKET, BY APPLICATIONS

7.1.Overview

7.1.1.Market size and forecast

7.2.Oil and gas

7.2.1.Key market trends, growth factors, and opportunities

7.2.2.Market size and forecast, by region

7.2.3.Market share analysis, by country

7.3.Aerospace and defense

7.3.1.Key market trends, growth factors, and opportunities

7.3.2.Market size and forecast, by region

7.3.3.Market share analysis, by country

7.4.Marine

7.4.1.Key market trends, growth factors, and opportunities

7.4.2.Market size and forecast, by region

7.4.3.Market share analysis, by country

7.5.Construction

7.5.1.Key market trends, growth factors, and opportunities

7.5.2.Market size and forecast, by region

7.5.3.Market share analysis, by country

7.6.Military

7.6.1.Key market trends, growth factors, and opportunities

7.6.2.Market size and forecast, by region

7.6.3.Market share analysis, by country

7.7.Others

7.7.1.Key market trends, growth factors, and opportunities

7.7.2.Market size and forecast, by region

7.7.3.Market share analysis, by country

CHAPTER 8:THERMOPLASTIC COMPOSITES MARKET, BY REGION

8.1.Overview

8.1.1.Market size and forecast, by region

8.2.North America

8.2.1.Key market trends, growth factors, and opportunities

8.2.2.Market size and forecast, by fiber type

8.2.3.Market size and forecast, by product type

8.2.4.Market size and forecast, by resin type

8.2.5.Market size and forecast, by applications

8.2.6.Market size and forecast, by country

8.2.7.U.S.

8.2.7.1.Market size and forecast, by fiber type

8.2.7.2.Market size and forecast, by product type

8.2.7.3.Market size and forecast, by resin type

8.2.7.4.Market size and forecast, by applications

8.2.8.Canada

8.2.8.1.Market size and forecast, by fiber type

8.2.8.2.Market size and forecast, by product type

8.2.8.3.Market size and forecast, by resin type

8.2.8.4.Market size and forecast, by applications

8.2.9.Mexico

8.2.9.1.Market size and forecast, by fiber type

8.2.9.2.Market size and forecast, by product type

8.2.9.3.Market size and forecast, by resin type

8.2.9.4.Market size and forecast, by applications

8.3.Europe

8.3.1.Key market trends, growth factors, and opportunities

8.3.2.Market size and forecast, by fiber type

8.3.3.Market size and forecast, by product type

8.3.4. Market size and forecast, by resin type

8.3.5. Market size and forecast, by applications

8.3.6. Market size and forecast, by country

8.3.7. Germany

8.3.7.1. Market size and forecast, by fiber type

8.3.7.2. Market size and forecast, by product type

8.3.7.3. Market size and forecast, by resin type

8.3.7.4. Market size and forecast, by applications

8.3.8. UK

8.3.8.1. Market size and forecast, by fiber type

8.3.8.2. Market size and forecast, by product type

8.3.8.3. Market size and forecast, by resin type

8.3.8.4. Market size and forecast, by applications

8.3.9. France

8.3.9.1. market size and forecast, by fiber type

8.3.9.2. Market size and forecast, by product type

8.3.9.3. Market size and forecast, by resin type

8.3.9.4. Market size and forecast, by applications

8.3.10. Spain

8.3.10.1. Market size and forecast, by fiber type

8.3.10.2. Market size and forecast, by product type

8.3.10.3. Market size and forecast, by resin type

8.3.10.4. Market size and forecast, by applications

8.3.11. Rest of Europe

8.3.11.1. Market size and forecast, by fiber type

8.3.11.2. Market size and forecast, by product type

8.3.11.3. Market size and forecast, by resin type

8.3.11.4. Market size and forecast, by applications

8.4. Asia-Pacific

8.4.1. Key market trends, growth factors, and opportunities

8.4.2. Market size and forecast, by fiber type

8.4.3. Market size and forecast, by product type

8.4.4. Market size and forecast, by resin type

8.4.5. Market size and forecast, by applications

8.4.6. Market size and forecast, by country

8.4.7. China

8.4.7.1. Market size and forecast, by fiber type

8.4.7.2. Market size and forecast, by product type

8.4.7.3. Market size and forecast, by resin type

- 8.4.7.4. Market size and forecast, by applications
- 8.4.8. Japan
 - 8.4.8.1. Market size and forecast, by fiber type
 - 8.4.8.2. Market size and forecast, by product type
 - 8.4.8.3. Market size and forecast, by resin type
 - 8.4.8.4. Market size and forecast, by applications
- 8.4.9. India
 - 8.4.9.1. Market size and forecast, by fiber type
 - 8.4.9.2. Market size and forecast, by product type
 - 8.4.9.3. Market size and forecast, by resin type
 - 8.4.9.4. Market size and forecast, by applications
- 8.4.10. South Korea
 - 8.4.10.1. Market size and forecast, by fiber type
 - 8.4.10.2. Market size and forecast, by product type
 - 8.4.10.3. Market size and forecast, by resin type
 - 8.4.10.4. Market size and forecast, by applications
- 8.4.11. Rest of Asia-Pacific
 - 8.4.11.1. Market size and forecast, by fiber type
 - 8.4.11.2. Market size and forecast, by product type
 - 8.4.11.3. Market size and forecast, by resin type
 - 8.4.11.4. Market size and forecast, by applications
- 8.5. LAMEA
 - 8.5.1. Key market trends, growth factors, and opportunities
 - 8.5.2. Market size and forecast, by fiber type
 - 8.5.3. Market size and forecast, by product type
 - 8.5.4. Market size and forecast, by resin type
 - 8.5.5. Market size and forecast, by applications
 - 8.5.6. Market size and forecast, by country
 - 8.5.7. Brazil
 - 8.5.7.1. Market size and forecast, by fiber type
 - 8.5.7.2. Market size and forecast, by product type
 - 8.5.7.3. Market size and forecast, by resin type
 - 8.5.7.4. Market size and forecast, by applications
 - 8.5.8. Saudi Arabia
 - 8.5.8.1. Market size and forecast, by fiber type
 - 8.5.8.2. Market size and forecast, by product type
 - 8.5.8.3. Market size and forecast, by resin type
 - 8.5.8.4. Market size and forecast, by applications
 - 8.5.9. South Africa

- 8.5.9.1.Market size and forecast, by fiber type
- 8.5.9.2.Market size and forecast, by product type
- 8.5.9.3.Market size and forecast, by resin type
- 8.5.9.4.Market size and forecast, by applications
- 8.5.10.Rest of LAMEA
 - 8.5.10.1.Market size and forecast, by fiber type
 - 8.5.10.2.Market size and forecast, by product type
 - 8.5.10.3.Market size and forecast, by resin type
 - 8.5.10.4.Market size and forecast, by applications

CHAPTER 9:COMPETITIVE LANDSCAPE

- 9.1.INTRODUCTION
 - 9.1.1.MARKET PLAYER POSITIONING, 2019
- 9.2.TOP WINNING STRATEGIES
 - 9.2.1.Top winning strategies, by year
 - 9.2.2.Top winning strategies, by development
 - 9.2.3.Top winning strategies, by company
- 9.3.COMPETITIVE HEATMAP
- 9.4.KEY DEVELOPMENTS
 - 9.4.1.New product launches
 - 9.4.2.Expansions
 - 9.4.3.Partnership
 - 9.4.4.Joint Venture

CHAPTER 10:COMPANY PROFILES

- 10.1.BASF SE
 - 10.1.1.Company overview
 - 10.1.2.Company snapshot
 - 10.1.3.Operating business segments
 - 10.1.4.Product portfolio
 - 10.1.5.Business performance
 - 10.1.6.Key strategic moves and developments
- 10.2.CELANESE CORPORATION
 - 10.2.1.Company overview
 - 10.2.2.Company snapshot
 - 10.2.3.Operating business segments
 - 10.2.4.Product portfolio

- 10.2.5.Business performance
- 10.3.DSM
 - 10.3.1.Company overview
 - 10.3.2.Company snapshot
 - 10.3.3.Operating business segments
 - 10.3.4.Product portfolio
 - 10.3.5.Business performance
- 10.4.DUPONT DE NEMOURS, INC.
 - 10.4.1.Company overview
 - 10.4.2.Company snapshot
 - 10.4.3.Product portfolio
 - 10.4.4.Business performance
- 10.5.Hanwha
 - 10.5.1.Company overview
 - 10.5.2.Company snapshot
 - 10.5.3.Product portfolio
 - 10.5.4.Business performance
- 10.6.LANXESS AG
 - 10.6.1.Company overview
 - 10.6.2.Company snapshot
 - 10.6.3.Operating business segments
 - Product portfolio
 - 10.6.4.Business performance
 - 10.6.5.Key strategic moves and developments
- 10.7.MITSUBISHI CHEMICAL HOLDINGS
 - 10.7.1.Company overview
 - 10.7.2.Company snapshot
 - 10.7.3.Operating business segments
 - 10.7.4.Product portfolio
 - 10.7.5.Business performance
- 10.8.PPG INDUSTRIES, INC.
 - 10.8.1.Company overview
 - 10.8.2.Company snapshot
 - 10.8.3.Product portfolio
 - 10.8.4.Business performance
- 10.9.SABIC
 - 10.9.1.Company overview
 - 10.9.2.Company snapshot
 - 10.9.3.Operating business segments

10.9.4.Product portfolio

10.9.5.Business performance

10.9.6.Key strategic moves and developments

10.10.SOLVAY S.A.

10.10.1.Company overview

10.10.2.Company snapshot

10.10.3.Operating business segments

10.10.4.Product portfolio

10.10.5.Business performance

10.10.6.Key strategic moves and developments

List Of Tables

LIST OF TABLES

TABLE 01.THERMOPLASTIC COMPOSITES PRICING FORECAST, BY FIBER TYPE,2019–2027 (\$/KILOTON)

TABLE 02.THERMOPLASTIC COMPOSITES PRICING FORECAST, BY REGION,2019–2027 (\$/KILOTON)

TABLE 03.THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 04.THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 05.THERMOPLASTIC COMPOSITES MARKET FOR GLASS, BY REGION, 2019–2027(KILOTON)

TABLE 06.THERMOPLASTIC COMPOSITES MARKET FOR GLASS, BY REGION, 2019–2027 (\$MILLION)

TABLE 07.THERMOPLASTIC COMPOSITES MARKET FOR CARBON, BY REGION, 2019–2027(KILOTON)

TABLE 08.THERMOPLASTIC COMPOSITES MARKET FOR CARBON, BY REGION, 2019–2027 (\$MILLION)

TABLE 09.THERMOPLASTIC COMPOSITES MARKET FOR MINERAL, BY REGION, 2019–2027(KILOTON)

TABLE 10.THERMOPLASTIC COMPOSITES MARKET FOR MINERAL, BY REGION, 2019–2027 (\$MILLION)

TABLE 11.THERMOPLASTIC COMPOSITES MARKET FOR OTHERS, BY REGION, 2019–2027(KILOTON)

TABLE 12.THERMOPLASTIC COMPOSITES MARKET FOR OTHERS, BY REGION, 2019–2027 (\$MILLION)

TABLE 13.THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 14.THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 15.THERMOPLASTIC COMPOSITES MARKET FOR GLASS MAT THERMOPLASTICS (GMT), BY REGION, 2019–2027(KILOTON)

TABLE 16.THERMOPLASTIC COMPOSITES MARKET FOR GLASS MAT THERMOPLASTICS (GMT), BY REGION, 2019–2027 (\$MILLION)

TABLE 17.THERMOPLASTIC COMPOSITES MARKET FOR ADVANCED THERMOPLASTIC COMPOSITES (ATC), BY REGION, 2019–2027(KILOTON)

TABLE 18.THERMOPLASTIC COMPOSITES MARKET FOR ADVANCED

THERMOPLASTIC COMPOSITES (ATC), BY REGION, 2019–2027 (\$MILLION)

TABLE 19.THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE,
2019–2027(KILOTON)

TABLE 20.THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027
(\$MILLION)

TABLE 21.THERMOPLASTIC COMPOSITES MARKET FOR PA, BY REGION,
2019–2027(KILOTON)

TABLE 22.THERMOPLASTIC COMPOSITES MARKET FOR PA, BY REGION,
2019–2027 (\$MILLION)

TABLE 23.THERMOPLASTIC COMPOSITES MARKET FOR PP, BY REGION,
2019–2027(KILOTON)

TABLE 24.THERMOPLASTIC COMPOSITES MARKET FOR PP, BY REGION,
2019–2027 (\$MILLION)

TABLE 25.THERMOPLASTIC COMPOSITES MARKET FOR PEEK, BY REGION,
2019–2027(KILOTON)

TABLE 26.THERMOPLASTIC COMPOSITES MARKET FOR PEEK, BY REGION,
2019–2027 (\$MILLION)

TABLE 27.THERMOPLASTIC COMPOSITES MARKET FOR HYBRID, BY REGION,
2019–2027(KILOTON)

TABLE 28.THERMOPLASTIC COMPOSITES MARKET FOR HYBRID, BY REGION,
2019–2027 (\$MILLION)

TABLE 29.THERMOPLASTIC COMPOSITES MARKET FOR OTHERS, BY REGION,
2019–2027(KILOTON)

TABLE 30.THERMOPLASTIC COMPOSITES MARKET FOR OTHERS, BY REGION,
2019–2027 (\$MILLION)

TABLE 31.THERMOPLASTIC COMPOSITES MARKET, BY APPLICATIONS,
2019–2027(KILOTON)

TABLE 32.THERMOPLASTIC COMPOSITES MARKET, BY APPLICATIONS,
2019–2027 (\$MILLION)

TABLE 33.THERMOPLASTIC COMPOSITES MARKET FOR OIL AND GAS, BY
REGION, 2019–2027(KILOTON)

TABLE 34.THERMOPLASTIC COMPOSITES MARKET FOR OIL AND GAS, BY
REGION, 2019–2027 (\$MILLION)

TABLE 35.THERMOPLASTIC COMPOSITES MARKET FOR AEROSPACE AND
DEFENSE, BY REGION, 2019–2027(KILOTON)

TABLE 36.THERMOPLASTIC COMPOSITES MARKET FOR AEROSPACE AND
DEFENSE, BY REGION, 2019–2027 (\$MILLION)

TABLE 37.THERMOPLASTIC COMPOSITES MARKET FOR MARINE, BY REGION,
2019–2027(KILOTON)

TABLE 38.THERMOPLASTIC COMPOSITES MARKET FOR MARINE, BY REGION, 2019–2027 (\$MILLION)

TABLE 39.THERMOPLASTIC COMPOSITES MARKET FOR CONSTRUCTION, BY REGION, 2019–2027(KILOTON)

TABLE 40.THERMOPLASTIC COMPOSITES MARKET FOR CONSTRUCTION, BY REGION, 2019–2027 (\$MILLION)

TABLE 41.THERMOPLASTIC COMPOSITES MARKET FOR MILITARY, BY REGION, 2019–2027(KILOTON)

TABLE 42.THERMOPLASTIC COMPOSITES MARKET FOR MILITARY, BY REGION, 2019–2027 (\$MILLION)

TABLE 43.THERMOPLASTIC COMPOSITES MARKET FOR OTHERS, BY REGION, 2019–2027(KILOTON)

TABLE 44.THERMOPLASTIC COMPOSITES MARKET FOR OTHERS, BY REGION, 2019–2027 (\$MILLION)

TABLE 45.THERMOPLASTIC COMPOSITES MARKET, BY REGION 2019–2027(KILOTON)

TABLE 46.THERMOPLASTIC COMPOSITES MARKET, BY REGION 2019–2027 (\$MILLION)

TABLE 47.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 48.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 49.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 50.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 51.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 52.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 53.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 54.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 55.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027(KILOTON)

TABLE 56.NORTH AMERICA THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027 (\$MILLION)

TABLE 57.U.S. THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE,

2019–2027(KILOTON)

TABLE 58.U.S. THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE,
2019–2027 (\$MILLION)

TABLE 59.U.S. THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE,
2019–2027(KILOTON)

TABLE 60.U.S. THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE,
2019–2027 (\$MILLION)

TABLE 61.U.S. THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE,
2019–2027(KILOTON)

TABLE 62.U.S. THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE,
2019–2027 (\$MILLION)

TABLE 63.U.S. THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS,
2019–2027 (KILOTON)

TABLE 64.U.S. THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS,
2019–2027 (\$MILLION)

TABLE 65.CANADA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE,
2019–2027(KILOTON)

TABLE 66.CANADA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE,
2019–2027 (\$MILLION)

TABLE 67.CANADA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT
TYPE, 2019–2027(KILOTON)

TABLE 68.CANADA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT
TYPE, 2019–2027 (\$MILLION)

TABLE 69.CANADA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE,
2019–2027(KILOTON)

TABLE 70.CANADA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE,
2019–2027 (\$MILLION)

TABLE 71.CANADA THERMOPLASTIC COMPOSITES MARKET FOR
APPLICATIONS, 2019–2027 (KILOTON)

TABLE 72.CANADA THERMOPLASTIC COMPOSITES MARKET FOR
APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 73.MEXICO THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE,
2019–2027(KILOTON)

TABLE 74.MEXICO THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE,
2019–2027 (\$MILLION)

TABLE 75.MEXICO THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT
TYPE, 2019–2027(KILOTON)

TABLE 76.MEXICO THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT
TYPE, 2019–2027 (\$MILLION)

TABLE 77.MEXICO THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 78.MEXICO THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 79.MEXICO THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 80.MEXICO THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 81.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 82.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 83.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 84.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 85.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 86.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 87.EUROPE THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 88.EUROPE THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 89.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027(KILOTON)

TABLE 90.EUROPE THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027 (\$MILLION)

TABLE 91.GERMANY THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 92.GERMANY THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 93.GERMANY THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 94.GERMANY THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 95.GERMANY THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 96.GERMANY THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE,

2019–2027 (\$MILLION)

TABLE 97.GERMANY THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 98.GERMANY THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 99.UK THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 100.UK THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 101.UK THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 102.UK THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 103.UK THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 104.UK THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 105.UK THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 106.UK THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 107.FRANCE THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 108.FRANCE THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 109.FRANCE THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 110.FRANCE THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 111.FRANCE THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 112.FRANCE THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 113.FRANCE THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 114.FRANCE THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 115.SPAIN THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 116.SPAIN THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 117.SPAIN THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 118.SPAIN THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 119.SPAIN THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 120.SPAIN THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 121.SPAIN THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 122.SPAIN THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 123.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 124.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 125.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 126.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 127.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 128.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 129.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 130.REST OF EUROPE THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 131.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 132.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 133.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 134.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 135.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY RESIN

TYPE, 2019–2027(KILOTON)

TABLE 136.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 137.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 138.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 139.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027(KILOTON)

TABLE 140.ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027 (\$MILLION)

TABLE 141.CHINA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 142.CHINA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 143.CHINA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 144.CHINA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 145.CHINA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 146.CHINA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 147.CHINA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 148.CHINA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 149.JAPAN THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 150.JAPAN THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 151.JAPAN THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 152.JAPAN THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 153.JAPAN THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 154.JAPAN THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 155.JAPAN THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 156.JAPAN THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 157.INDIA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 158.INDIA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 159.INDIA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 160.INDIA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 161.INDIA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 162.INDIA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 163.INDIA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 164.INDIA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 165.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 166.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 167.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 168.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 169.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 170.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 171.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 172.SOUTH KOREA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 173.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 174.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY

FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 175.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 176.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 177.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 178.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 179.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 180.REST OF ASIA-PACIFIC THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 181.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 182.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 183.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 184.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 185.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 186.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 187.LAMEA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 188.LAMEA THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 189.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027(KILOTON)

TABLE 190.LAMEA THERMOPLASTIC COMPOSITES MARKET, BY COUNTRY 2019–2027 (\$MILLION)

TABLE 191.BRAZIL THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 192.BRAZIL THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027 (\$MILLION)

TABLE 193.BRAZIL THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027(KILOTON)

TABLE 194.BRAZIL THERMOPLASTIC COMPOSITES MARKET, BY PRODUCT TYPE, 2019–2027 (\$MILLION)

TABLE 195.BRAZIL THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027(KILOTON)

TABLE 196.BRAZIL THERMOPLASTIC COMPOSITES MARKET, BY RESIN TYPE, 2019–2027 (\$MILLION)

TABLE 197.BRAZIL THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (KILOTON)

TABLE 198.BRAZIL THERMOPLASTIC COMPOSITES MARKET FOR APPLICATIONS, 2019–2027 (\$MILLION)

TABLE 199.SAUDI ARABIA THERMOPLASTIC COMPOSITES MARKET, BY FIBER TYPE, 2019–2027(KILOTON)

TABLE 200.SAUDI ARABIA THERMOPLASTIC COMPOSITES MARKE

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