

Growth Opportunities in the Global Thermoplastic Composites Market

Published: October 2016

Trends, opportunities and forecast in this market to 2021 by end use industry type (transportation, consumer goods, construction, industrial, others), by material type (short fiber thermoplastics, long fiber thermoplastics, continuous fiber thermoplastics, glass mat thermoplastics), by fiber type (glass fiber, carbon fiber & others), by resin type (polypropylene, polyamide, polybutylene terephthalate, and others) and by region (North America, Europe, Asia Pacific [including Rest of the World])

Table of Content

Table of Contents

1. Executive Summary

2. Industry Background and Classifications

2.1: Introduction

2.1.1: Characteristics of Industry

2.1.2: Material Forms, Types, and Properties of Thermoplastic Composites

2.2: Industry Classification

2.3: Supply Chain

3. Market Trends and Forecast Analysis

3.1: Market Analysis 2015

3.1.1: Global Thermoplastic Composites Market by End Use Industry

- Transportation
- Consumer Goods
- Construction
- Industrial
- Others

3.1.2: Global Thermoplastic Composites Market by Material Type

- SFT
- LFT
- GMT
- CFT

3.1.3: Global Thermoplastic Composites Market by Resin Type

- PP
- PA
- PBT
- Others

3.1.4: Global Thermoplastic Composites Market by Fiber Type

- Glass Fiber
- Carbon Fiber and Others

3.1.5: Global Thermoplastic Composites Market by Region

- North America
- Europe
- Asia Pacific
- Rest of the World

3.2: Market Trends from 2010 to 2015

3.2.1: Macroeconomic Trends

3.2.2: Trends of the Global Thermoplastic Composites Market

3.2.3: Industry Drivers and Challenges

3.3: Market Forecast 2016-2021

3.3.1: Macroeconomic Forecasts

3.3.2: Forecast for the Global Thermoplastic Composites Market

4. Competitor Analysis

4.1: Product Portfolio Analysis

4.2: Market Share Analysis

4.3: Geographical Reach

4.4: Operational Integration

4.5: Porter's Five Forces Analysis

5. Growth Opportunities and Strategic Analysis

5.1: Growth Opportunities Analysis

5.1.1: Growth Opportunities for the Thermoplastic Composite Market by Region

5.1.2: Growth Opportunities for the Thermoplastic Composite Market by End Use Industry

5.1.3: Growth Opportunities for the Thermoplastic Composite Market by Material

5.1.4: Growth Opportunities for the Thermoplastic Composite Market by Resin Type

5.1.5: Growth Opportunities for the Thermoplastic Composite Market by Fiber Type

5.2: Innovations in Thermoplastic Composite Market

5.3: Emerging Trends of Global Thermoplastic Composite Market

5.4: Strategic Analysis

5.4.1: New Product Development

5.4.2: Capacity Expansion in Global TPC Market

5.4.3: Mergers and Acquisitions in the Global Thermoplastic Composites Market

5.5: New Entrants in the Global Thermoplastic Composites Market

6. Company Profiles of Leading Players

6.1: Celanese

6.2: SABIC

6.3: BASF SE

6.4: DSM

6.5: DuPont

6.6: LANXESS

6.7: Hanwha L&C

List of Figures

Chapter 2. Industry Background and Classifications

Fig. 2.1: Forms of Thermoplastic Composite Materials.

Fig. 2.2: Typical Short Fiber Thermoplastic Material

Fig. 2.3: Typical Long Fiber Thermoplastic Material

Fig. 2.4: Continuous reinforced Thermoplastic Material

Fig. 2.5: Types of Thermoplastic Composites Material

Fig. 2.6: Comparison of tensile modulus for various thermoplastic resins.

Fig. 2.7: Comparison of tensile strength for various thermoplastic resins.

Figure 2.8: Classification of Global Thermoplastic Composites Market

Chapter 3. Market Trends and Forecast Analysis

Figure 3.1: Global Thermoplastic Composites Market (\$M) Distribution by End Use Industry in 2015

Figure 3.2: Global Thermoplastic Composites Market (\$M) by End Use Industry in 2015

Figure 3.3: Global Thermoplastic Composites Market (Million Pounds) Distribution by End Use Industry in 2015

Figure 3.4: Global Thermoplastic Composites Market (Million Pounds) by End Use Industry in 2015

Figure 3.5: Thermoplastic Composites Market (\$M) Distribution in the Global Transportation Industry by Application in 2015

Figure 3.6: Thermoplastic Composites Market (\$M) in the Global Transportation Industry by Application in 2015

Figure 3.7: Thermoplastic Composites Market (Million Pounds) Distribution in the Global Transportation Industry by Application in 2015

Figure 3.8: Thermoplastic Composites Market (Million Pounds) in the Global Transportation Industry by Application in 2015

Figure 3.9: Global Thermoplastic Composites Market (\$M) Distribution by Material Type in 2015

Figure 3.10: Global Thermoplastic Composites Market (Million Pounds) by Material Type in 2015

Figure 3.11: Global Thermoplastic Composites Market (Million Pounds) Distribution by Material Type in 2015

Figure 3.12: Global Thermoplastic Composites Market (Million Pounds) by Material Type in 2015

Figure 3.13: Global Thermoplastic Composites Market (\$M) Distribution by Resin Type in 2015

Figure 3.14: Global Thermoplastic Composites Market (\$M) by Resin Type in 2015

Figure 3.15: Global Thermoplastic Composites Market (Million Pounds) Distribution by Resin Type in 2015

Figure 3.16: Global Thermoplastic Composites Market (Million Pounds) by Resin Type in 2015

Figure 3.17: Global Thermoplastic Composites Market (\$M) Distribution by Fiber Type in 2015

Figure 3.18: Global Thermoplastic Composites Market (\$M) by Fiber Type in 2015

Figure 3.19: Global Thermoplastic Composites Market (Million Pounds) Distribution by Fiber Type in 2015

Figure 3.20: Global Thermoplastic Composites Market (Million Pounds) by Fiber Type in 2015

Figure 3.21: Global Thermoplastic Composites Market (\$M) Distribution by Region in 2015

Figure 3.22: Global Thermoplastic Composites Market (\$M) by Region in 2015

Figure 3.23: Global Thermoplastic Composites Market (Million Pounds) Distribution by Region in 2015

Figure 3.24: Global Thermoplastic Composites Market (Million Pounds) by Region in 2015

Figure 3.25: Trends of Global Automotive Production from 2010 to 2015

Figure 3.26: Trends of Automotive Production by Region from 2010 to 2015

Figure 3.27: Trends of Global GDP Growth Rate

Figure 3.28: Regional GDP Growth Rate Trend at Constant Price

Figure 3.29: Trends of the Global Thermoplastic Composites Market from 2010 to 2015

Figure 3.30: Trends of the Global Thermoplastic Composites Market (\$M) by End Use Industry from 2010 to 2015

Figure 3.31: Year-over-Year Growth Rate in Various End Use Industry of the Global Thermoplastic Composites Market by Value from 2014 to 2015

Figure 3.32: CAGR of the Global Thermoplastic Composites Market (\$M) by End Use Industry from 2010 to 2015

Figure 3.33: Trends of the Global Thermoplastic Composites Market (Million Pounds) by End Use Industry from 2010 to 2015

Figure 3.34: Year-over-Year Growth Rate in Various End Use Industry of the Global Thermoplastic Composites Market by Volume from 2014 to 2015

Figure 3.35: CAGR of the Global Thermoplastic Composites Market (Million Pounds) by End Use Industry from 2010 to 2015

Figure 3.36: Trends of the Global Thermoplastic Composites Market (\$M) by Material Type from 2010 to 2015

Figure 3.37: Year-over-Year Growth Rate in Various Material of the Global Thermoplastic Composites Market by Value from 2014 to 2015

Figure 3.38: CAGR of the Global Thermoplastic Composites Market (\$M) by Material Type from 2010 to 2015

Figure 3.39: Trends of the Global Thermoplastic Composites Market (Million Pounds) by Material Type from 2010 to 2015

Figure 3.40: Year-over-Year Growth Rate in Various Material of the Global Thermoplastic Composites Market by Volume from 2014 to 2015

Figure 3.41: CAGR of the Global Thermoplastic Composites Market (Million Pounds) by Material Type from 2010 to 2015

Figure 3.42: Trends of the Global Thermoplastic Composites Market (\$M) by Resin Type from 2010 to 2015

Figure 3.43: Year-over-Year Growth Rate in Resin type of the Global Thermoplastic Composites Market by Value from 2014 to 2015

Figure 3.44: CAGR of the Global Thermoplastic Composites Market (\$M) by Resin Type from 2010 to 2015

Figure 3.45: Trends of the Global Thermoplastic Composites Market (Million Pounds) by Resin Type from 2010 to 2015

Figure 3.46: Year-over-Year Growth Rate in Resin type of the Global Thermoplastic Composites Market by Volume from 2014 to 2015

Figure 3.47: CAGR of the Global Thermoplastic Composites Market (Million Pounds) by Resin Type from 2010 to 2015

Figure 3.48: Trends of the Global Thermoplastic Composites Market (\$M) by Fiber Type from 2010 to 2015

Figure 3.49: Year-over-Year Growth Rate in Fiber type of the Global Thermoplastic Composites Market by Value from 2014 to 2015

Figure 3.50: CAGR of the Global Thermoplastic Composites Market (\$M) by Fiber Type from 2010 to 2015

Figure 3.51: Trends of the Global Thermoplastic Composites Market (Million Pounds) by Fiber Type from 2010 to 2015

Figure 3.52: Year-over-Year Growth Rate in Fiber type of the Global Thermoplastic Composites Market by Volume from 2014 to 2015

Figure 3.53: CAGR of the Global Thermoplastic Composites Market (Million Pounds) by Fiber Type from 2010 to 2015

Figure 3.54: Trends of the Global Thermoplastic Composites Market (\$M) by Region from 2010 to 2015

Figure 3.55: Year-over-Year Growth Rate in different region of the Global Thermoplastic Composites Market by Value from 2014 to 2015

Figure 3.56: CAGR of the Global Thermoplastic Composites Market (\$M) by Region from 2010 to 2015

Figure 3.57: Trends of the Global Thermoplastic Composites Market (Million Pounds) by Region from 2010 to 2015

Figure 3.58: Year-over-Year Growth Rate in different region: of the Global Thermoplastic Composites Market by Volume from 2014 to 2015

Figure 3.59: CAGR of the Global Thermoplastic Composites Market (Million Pounds) by Region from 2010 to 2015

Figure 3.60: Drivers and Challenges of the Global Thermoplastic Composites Market

Figure 3.61: Forecast for the Global Automotive Production from 2016 to 2021

Figure 3.62: Forecast for Automotive Production by Region from 2016 to 2021

Figure 3.63: Forecast for Global GDP Growth Rate

Figure 3.64: Forecast for Regional GDP Growth Rate at Constant Price

Figure 3.65: Forecast for the Global Thermoplastic Composites Market from 2016 to 2021

Figure 3.66: Forecast for the Global Thermoplastic Composites Market (\$M) by End Use Industry from 2016 to 2021

Figure 3.67: Year-on Year Growth Rate of Various End Use Industry for the Global Thermoplastic Composites Market by Value from 2015 to 2016

Figure 3.68: CAGR Forecast for the Global Thermoplastic Composites Market (\$M) by End Use Industry from 2016 to 2021

Figure 3.69: Forecast for the Global Thermoplastic Composites Market (Million Pounds) by End Use Industry from 2016 to 2021

Figure 3.70: Year-on Year Growth Rate of Various End Use Industry for the Global Thermoplastic Composites Market by Volume from 2015 to 2016

Figure 3.71: CAGR Forecast for the Global Thermoplastic Composites Market (Million Pounds) by End Use Industry from 2016 to 2021

Figure 3.72: Forecast for the Global Thermoplastic Composites Market (\$M) by Material Type from 2016 to 2021

Figure 3.73 Year-on Year Growth Rate of Material Types for the Global Thermoplastic Composites Market by Value from 2015 to 2016

Figure 3.74: CAGR Forecast for the Global Thermoplastic Composites Market (\$M) by Material Type from 2016 to 2021

Figure 3.75: Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Material Type from 2016 to 2021

Figure 3.76: Year-on Year Growth Rate in Material Type for the Global Thermoplastic Composites Market by Volume from 2015 to 2016

Figure 3.77: CAGR Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Material Type from 2016 to 2021

Figure 3.78: Forecast for the Global Thermoplastic Composites Market (\$M) by Resin Type from 2016 to 2021

Figure 3.79: Year-on Year Growth Rate in Resin Type for the Global Thermoplastic Composites Market by Value from 2015 to 2016

Figure 3.80: CAGR Forecast for the Global Thermoplastic Composites Market (\$M) by Resin Type from 2016 to 2021

Figure 3.81: Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Resin Type from 2016 to 2021

Figure 3.82: Year-on Year Growth Rate of Resin Types for the Global Thermoplastic Composites Market by Volume from 2015 to 2016

Figure 3.83: CAGR Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Resin Type from 2016 to 2021

Figure 3.84: Forecast for the Global Thermoplastic Composites Market (\$M) by Fiber Type from 2016 to 2021

Figure 3.85: Year-on Year Growth Rate of Fiber Types for the Global Thermoplastic Composites Market by Value from 2015 to 2016

Figure 3.86: CAGR Forecast for the Global Thermoplastic Composites Market (\$M) by Fiber Type from 2016 to 2021

Figure 3.87: Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Fiber Type from 2016 to 2021

Figure 3.88: Year-on Year Growth Rate of Fiber Types for the Global Thermoplastic Composites Market by Volume from 2015 to 2016

Figure 3.89: CAGR Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Fiber Type from 2016 to 2021

Figure 3.90: Forecast for the Global Thermoplastic Composites Market (\$M) by Region from 2016 to 2021

Figure 3.91: Year-on Year Growth Rate of Various Regions for the Global Thermoplastic Composites Market by Value from 2015 to 2016

Figure 3.92: CAGR Forecast for the Global Thermoplastic Composites Market (\$M) by Region from 2016 to 2021

Figure 3.93: Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Region from 2016 to 2021

Figure 3.94: Year-on Year Growth Rate of Various Regions for the Global Thermoplastic Composites Market by Volume from 2015 to 2016

Figure 3.95: CAGR Forecast for the Global Thermoplastic Composites Market (Million Pounds) by Region from 2016 to 2021

Chapter 4. Competitor Analysis

Figure 4.1: Market Share Analysis of Global Thermoplastic Composites Manufacturers in 2015

Figure 4.2: Top Five vs Other Players Market Share Analysis

Figure 4.3: Geographical Footprint of Competitors in the TPC Market

Figure 4.4: Porter's Five Forces Model for the Global Thermoplastic Composites Market

Chapter 5. Growth Opportunities and Strategic Analysis

Figure 5.1: Growth Opportunities in the Global TPC Market by Region from 2016 to 2021

Figure 5.2: Growth Opportunities in the Global TPC Market by End Use Industry from 2016 to 2021

Figure 5.3: Growth Opportunities in the Global TPC Market by Material Type from 2016 to 2021

Figure 5.4: Growth Opportunities in the Global TPC Market by Resin Type from 2016 to 2021

Figure 5.5: Growth Opportunities in the Global TPC Market by Fiber Type from 2016 to 2021

Figure 5.6: Airbus A400M Atlas Military Transport Aircraft

Figure 5.7: Car Seat Shell - Opel Astra

Figure 5.8: Fiberflex-11 Composite Pressure Pipe

Figure 5.9: Horizontal Tailplane for AusgtaWestland AW169 Helicopter

Figure 5.10: DC Connector

Figure 5.11: Air Intake Manifold

Figure 5.12: Hybrid Bumper Beam

Figure 5.13: Emerging Trends of Global Thermoplastic Composites Market

Figure 5.14: Strategic Initiatives by Major Competitors in 2015

Figure 5.15: Strategic Initiatives by Major Competitors in 2014

Figure 5.16: Year-over-Year Study of the Strategic Initiatives in Global Thermoplastic Composites Market

Figure 5.17: Capacity Expansion by Major Players in the Global Thermoplastic Composites Market

List of Tables

Chapter 1. Executive Summary

Table 1.1: TPC Market Parameters and Attributes – Materials Perspective

Chapter 2. Industry Background and Classifications

Table 2.1: Performance Comparison of Key Thermoplastic Resins

Table 2.2: Property Data for Key Thermoplastic Resins.

Table 2.3: Advantages and Disadvantages of Thermoplastic Composites Resins

Table 2.4: Property Data for Fibers.

Table 2.5 Properties Data of Various LFRT Materials.

Table 2.6: Property Example of Short Fiber Reinforced Polyamide Reinforced with the Same Level of the Three Main Reinforcement Fibers

Table 2.7: List of High Temperature Thermoplastic Polymers

Table 2.8: List of Engineering Thermoplastic Polymers

Table 2.9: Property comparison- Polyamide Group.

Table 2.10: Properties Data for GMT Materials.

Table 2.11: Property Data for CFTPCs.

Table 2.12: Property Data for CFTPCs.

Chapter 3. Market Trends and Forecast Analysis

Table 3.1: Trends of the Global Thermoplastic Composites Market from 2010 to 2015

Table 3.2: Average Growth Rates for One, Three, and Five years in the Global Thermoplastic Composites Market in Terms of Shipment Value (\$M)

Table 3.3: Market Size and Growth Rates (2014-2015) of Various End Use Industry of the Global Thermoplastic Composite Market by Value and Volume

Table 3.4: Market Size and Compounded Annual Growth Rates (2010-2015) in Various End Use Industry of the Global Thermoplastic Composite Market by Value and Volume

Table 3.5: Market Size and Growth Rates (2014-2015) of Various Materials of the Global Thermoplastic Composites Market by Value and Volume

Table 3.6: Market Size and Compounded Annual Growth Rates (2010-2015) of Various Material Types of the Global Thermoplastic Composite Market by Value and Volume

Table 3.7: Market Size and Growth Rates (2014-2015) of Resin Types of the Global Thermoplastic Composites Market by Value and Volume

Table 3.8: Market Size and Compounded Annual Growth Rates (2010-2015) of Resin Type of the Global Thermoplastic Composite Market by Value and Volume

Table 3.9: Market Size and Growth Rates (2014-2015) of Fiber Types of the Global Thermoplastic Composites Market by Value and Volume

Table 3.10: Market Size and Compounded Annual Growth Rates (2010-2015) of Fiber Type of the Global Thermoplastic Composite Market by Value and Volume

Table 3.11: Market Size and Growth Rates (2014-2015) if Different Regions of the Global Thermoplastic Composites Market by Value and Volume

Table 3.12: Market Size and Compounded Annual Growth Rates (2010-2015) of Different Regions of the Global Thermoplastic Composite Market by Value and Volume

Table 3.13: Forecast for the Global Thermoplastic Composites Market from 2016 to 2021

Table 3.14: Average Growth Rates for One, Three, and Five years in the Global Thermoplastic Composites Market in Terms of \$ Shipment

Table 3.15: Market Size and Growth Rates (2015-2016) of Various End Use Industry of the Global Thermoplastic Composite Market by Value and Volume

Table 3.16: Market Size and Compounded Annual Growth Rates (2016-2021) of Various End Use Industry of the Global Thermoplastic Composite Market by Value and Volume

Table 3.17: Market Size and Growth Rates (2015-2016) of Various Materials of the Global Thermoplastic Composites Market by Value and Volume

Table 3.18: Market Size and Compounded Annual Growth Rates (2016-2021) of Various Material type of the Global Thermoplastic Composite Market by Value and Volume

Table 3.19: Market Size and Growth Rates (2015-2016) of Resin Type of the Global Thermoplastic Composites Market by Value and Volume

Table 3.20: Market Size and Compounded Annual Growth Rates (2016-2021) in various resin type of the Global Thermoplastic Composite Market by Value and Volume

Table 3.21: Market Size and Growth Rates (2015-2016) in fiber type of the Global Thermoplastic Composites Market by Value and Volume

Table 3.22: Market Size and Compounded Annual Growth Rates for (2016-2021) in various fiber type of the Global Thermoplastic Composite Market by Value and Volume

Table 3.23: Market Size and Growth Rates (2015-2016) in different region of the Global Thermoplastic Composites Market by Value and Volume

Table 3.24: Market Size and Compounded Annual Growth Rates (2016-2021) in different region of the Global Thermoplastic Composite Market by Value and Volume

Chapter 4. Competitor Analysis

Table 4.1: Industry-Wide Product Mapping for Global Thermoplastic Composites Market Based on Applications

Table 4.2: Industry-Wide Product Mapping for Global Thermoplastic Composites Market Based on Resin Type

Table 4.3: Industry-Wide Product Mapping for Global Thermoplastic Composites Market Based on Reinforcement Type

Table 4.4: Industry-Wide Product Mapping for Global Thermoplastic Composites Market Based on Material Type

Table 4.5: Ranking of Manufacturers based on TPC Revenue

Table 4.6: Operational Integration of TPC Suppliers

Chapter 5. Growth Opportunities and Strategic Analysis

Table 5.1: Thermoplastic Composites Recently Launched by the Major Companies Showing the Applications and Benefits of Each Product

Table 5.2: New Market Entry in Thermoplastic Composite Market