

Global Composites Market Forecast to 2028

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Report description:

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Market Overview

Increased demand from the automotive sector, the expanding wind energy sector, and the expanding construction sector are propelling market expansion. Car body panels and frames, structural underbody floors, closures, induction ducts, front and rear trunks, bulkheads (mid-window frames), service doors in the rear trunk, rear surround frames and curved bumper beams are all common places where composite materials are used in the manufacturing process. Motorsports and low-volume, high-end or luxury automobiles, which favor continuous carbon fiber materials, frequently employ composites.

In addition, the push to achieve zero emissions by 2050, which results in greater development and manufacture of electric vehicles, is another motivating reason for composites in the automotive industry (EVs). As a result, the market revenue for composites is projected to increase due to the rising demand for these materials in automobiles. Composites offer corrosion resistance and durability, which help structures last longer and require less maintenance, giving them a long-term financial benefit over more conventional materials like concrete and steel. Promoters from material suppliers to fabricators are trying a lot to spread the word about the benefits that innovative materials may provide for modernizing infrastructure all around the world.

Segment Overview

The market segmentation for composites is divided into four categories: type, process, resin, and end-use. Based on type, the Composites market is divided into Carbon Fiber, Glass Fiber, and Others. Injection moulding, layup, filament winding, compression moulding, pultrusion, and other processes are based on them. Depending on the end application, there are five categories: wind energy, building & construction, electrical & electronics, and automotive & transportation. Thermosetting Composites and Thermoplastic Composites are two subgroups of the Composites market.

Regional Analysis

The market is divided into Europe, North America, Latin America, the Middle East and Africa, and Asia-Pacific in the study based on region. Due to the EU's proposed tightening of its 2028 objective for new car CO₂ emissions to fifty percentage below 2021 levels, up from 37.5%, the Europe Composites market accounts for the second-largest market share. Based on the application scenario for electric vehicles, automakers place various demands on the power electronics systems, such as resistance to changes in temperature, vibration tolerance, operational dependability at various temperatures, and durability. Also, the German Composites market had the highest market share and was expanding at the quickest rate in the continent of Europe. The cause of this expansion is due to the automotive and transportation industries. Also, the USA Composites market had the highest market

share and was expanding at the fastest rate in the area.

Major Players

PPG Industries Inc. (US), Solvay (Belgium), SGL Carbon (Germany), Teijin Limited (Japan), Toray Industries Inc. (Japan), Jushi Group Co.. Ltd (China), Hexion (US), Ons Coming (US), Hexcel Corporation (US), Mitsubishi Chemicals Corporation (Japan), and Huntsrnan International LLC are some of the leading companies in the composites market (US).

COVID 19 Impacts

The market is divided into segments based on the kind of fibre, including carbon fibre, natural fibre, glass fibre and others. The market's greatest share belonged to the glass fibre category in 2019, and this trend is anticipated to continue throughout the forecast period. Glass fibre is a great material that is utilized in a variety of applications in the building, marine, wind energy, pipes and tanks, and transportation sectors due to its high strength, durability, flexibility, stability, and resistance to heat, low weight, temperature, and moisture. Due to the manufacture of glass fibre composites being stopped in response to the COVID-19 epidemic in order to maintain social distance between engineers, floor workers and other staff, the demand for composites decreased.

Table of Contents:

TABLE OF CONTENTS

1 EXECUTIVE SUMMARY 19

1.1 GLOBAL COMPOSITES MARKET, BY TYPE 21

1.2 GLOBAL COMPOSITES MARKET, BY RESIN TYPE 22

1.3 GLOBAL COMPOSITES MARKET, BY PROCESS 23

1.4 GLOBAL COMPOSITES MARKET, BY END-USE 24

1.5 GLOBAL COMPOSITES MARKET, BY REGION 25

2 MARKET INTRODUCTION 26

2.1 DEFINITION 26

2.2 SCOPE OF THE STUDY 26

2.3 MARKET STRUCTURE 27

3 RESEARCH METHODOLOGY 28

3.1 RESEARCH PROCESS 28

3.2 PRIMARY RESEARCH 29

3.3 SECONDARY RESEARCH 30

3.4 MARKET SIZE ESTIMATION 31

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3.5 FORECAST MODEL 32

3.6 LIST OF ASSUMPTIONS 33

4 MARKET DYNAMICS 34

4.1 INTRODUCTION 34

4.2 DRIVERS 35

4.2.1 SURGE IN DEMAND FROM THE AUTOMOTIVE INDUSTRY 35

4.2.2 GROWTH OF THE CONSTRUCTION INDUSTRY 36

4.2.3 GROWING WIND ENERGY SECTOR 38

4.2.4 DRIVERS IMPACT ANALYSIS 39

4.3 RESTRAINTS 39

4.3.1 FLUCTUATING RAW MATERIAL PRICES 39

4.3.2 RESTRAINTS IMPACT ANALYSIS 40

4.4 OPPORTUNITIES 40

4.4.1 RISING DEMAND FOR RECYCLABLE COMPOSITES 40

4.4.2 RISING DEMAND FROM VARIOUS EMERGING ECONOMIES 41

4.5 CHALLENGES 42

4.5.1 AVAILABILITY OF SUBSTITUTES 42

5 MARKET FACTOR ANALYSIS 43

5.1 VALUE CHAIN ANALYSIS 43

5.1.1 RAW MATERIALS SUPPLIERS 44

5.1.2 COMPOSITES MANUFACTURERS 44

5.1.3 DISTRIBUTION CHANNEL 44

5.1.4 APPLICATION 45

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5.2 PORTER'S FIVE FORCES MODEL 45

5.2.1 THREAT OF NEW ENTRANTS 46

5.2.2 BARGAINING POWER OF SUPPLIERS 46

5.2.3 THREAT OF SUBSTITUTES 46

5.2.4 BARGAINING POWER OF BUYERS 46

5.2.5 INTENSITY OF COMPETITIVE RIVALRY 47

5.3 PRICING ANALYSIS, BY REGION 47

5.4 IMPACT OF COVID-19 ON THE GLOBAL COMPOSITES MARKET 47

5.4.1 PRODUCTION SCENARIO 47

5.4.2 IMPACT OF COVID 19 ON THE SUPPLY CHAIN OF COMPOSITES MARKET 48

5.4.2.1 RAW MATERIAL SUPPLY 48

5.4.2.2 END USE INDUSTRY 49

6 GLOBAL COMPOSITES MARKET, BY TYPE 50

6.1 OVERVIEW 50

6.1.1 COMPOSITES: MARKET ESTIMATES & FORECAST BY TYPE, 2022-2028 51

6.1.2 COMPOSITES: MARKET ESTIMATES & FORECAST BY TYPE, 2022-2028 52

6.2 GLASS FIBER 52

6.2.1 GLASS FIBER: MARKET ESTIMATES & FORECAST BY REGION,2022-2028 52

6.3 CARBON FIBER 53

6.3.1 CARBON FIBER: MARKET ESTIMATES & FORECAST BY REGION,2022-2028 53

6.4 OTHERS 54

6.4.1 OTHERS: MARKET ESTIMATES & FORECAST BY REGION,2022-2028 54

7 GLOBAL COMPOSITES MARKET, BY RESIN TYPE 56

7.1 OVERVIEW 56

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7.1.1 THERMOSETTING COMPOSITES: MARKET ESTIMATES & FORECAST BY RESIN TYPE, 2022-2028 57

7.1.2 COMPOSITES: MARKET ESTIMATES & FORECAST BY RESIN TYPE, 2022-2028 58

7.2 THERMOPLASTIC COMPOSITES 58

7.2.1 THERMOPLASTIC COMPOSITES: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 58

7.3 THERMOSETTING COMPOSITES 60

7.3.1 THERMOSETTING COMPOSITES: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 60

8 GLOBAL COMPOSITES MARKET, BY PROCESS 62

8.1 OVERVIEW 62

8.1.1 COMPOSITES: MARKET ESTIMATES & FORECAST BY PROCESS, 2022-2028 63

8.1.2 COMPOSITES: MARKET ESTIMATES & FORECAST BY PROCESS, 2022-2028 64

8.2 LAYUP PROCESS 65

8.2.1 LAYUP PROCESS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 65

8.3 INJECTION MOLDING PROCESS 66

8.3.1 INJECTION MOLDING PROCESS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 66

8.4 FILAMENT WINDING PROCESS 67

8.4.1 FILAMENT WINDING PROCESS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 67

8.5 PULTRUSION PROCESS 68

8.5.1 PULTRUSION PROCESS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 68

8.6 COMPRESSION MOLDING PROCESS 69

8.6.1 COMPRESSION MOLDING PROCESS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 69

8.7 OTHERS 70

8.7.1 OTHERS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 70

9 GLOBAL COMPOSITES MARKET, BY END-USE 71

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9.1 OVERVIEW 71

9.1.1 COMPOSITES: MARKET ESTIMATES & FORECAST BY END-USE, 2022-2028 72

9.1.2 COMPOSITES: MARKET ESTIMATES & FORECAST BY END-USE, 2022-2028 73

9.2 AEROSPACE & DEFENSE 74

9.2.1 AEROSPACE & DEFENSE: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 74

9.3 AUTOMOTIVE & TRANSPORTATION 76

9.3.1 AUTOMOTIVE & TRANSPORTATION: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 76

9.4 ELECTRICAL & ELECTRONICS 78

9.4.1 ELECTRICAL & ELECTRONICS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 78

9.5 BUILDING & CONSTRUCTION 79

9.5.1 BUILDING & CONSTRUCTION: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 79

9.6 WIND ENERGY 80

9.6.1 WIND ENERGY: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 80

9.7 MARINE 81

9.7.1 MARINE: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 81

9.8 OTHERS 82

9.8.1 OTHERS: MARKET ESTIMATES & FORECAST BY REGION, 2022-2028 82

10 GLOBAL COMPOSITES MARKET, BY REGION 83

10.1 OVERVIEW 83

10.2 NORTH AMERICA 86

10.2.1 US 91

10.2.2 CANADA 95

10.3 EUROPE 99

10.3.1 GERMANY 104

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10.3.2 RUSSIA 108

10.3.3 UK 112

10.3.4 ITALY 116

10.3.5 FRANCE 120

10.3.6 SPAIN 124

10.3.7 REST OF EUROPE 128

10.4 ASIA-PACIFIC 132

10.4.1 CHINA 137

10.4.2 JAPAN 141

10.4.3 INDIA 145

10.4.4 SOUTH KOREA 149

10.4.5 AUSTRALIA & NEW ZEALAND 153

10.4.6 REST OF ASIA-PACIFIC 157

10.5 LATIN AMERICA 161

10.5.1 BRAZIL 166

10.5.2 MEXICO 170

10.5.3 ARGENTINA 174

10.5.4 REST OF LATIN AMERICA 178

10.6 THE MIDDLE EAST & AFRICA 182

10.6.1 TURKEY 187

10.6.2 SOUTH AFRICA 191

10.6.3 GCC COUNTRIES 195

10.6.4 REST OF THE MIDDLE EAST & AFRICA 199

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11 COMPETITIVE LANDSCAPE 203

11.1 INTRODUCTION 203

11.2 MARKET STRATEGY ANALYSIS 203

11.3 KEY DEVELOPMENTS & GROWTH STRATEGIES 204

11.4 COMPETITIVE BENCHMARKING 207

12 COMPANY PROFILES 208

12.1 PPG INDUSTRIES INC. 208

12.1.1 COMPANY OVERVIEW 208

12.1.2 FINANCIAL OVERVIEW 209

12.1.3 PRODUCTS OFFERED 210

12.1.4 KEY DEVELOPMENTS 210

12.1.5 SWOT ANALYSIS 211

12.1.6 KEY STRATEGIES 211

12.2 HEXION 212

12.2.1 COMPANY OVERVIEW 212

12.2.2 FINANCIAL OVERVIEW 213

12.2.3 PRODUCTS OFFERED 214

12.2.4 KEY DEVELOPMENTS 216

12.2.5 SWOT ANALYSIS 217

12.2.6 KEY STRATEGIES 217

12.3 JUSHI GROUP CO. LTD 218

12.3.1 COMPANY OVERVIEW 218

12.3.2 FINANCIAL OVERVIEW 218

12.3.3 PRODUCTS OFFERED 218

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12.3.4 KEY DEVELOPMENTS 219

12.3.5 SWOT ANALYSIS 219

12.3.6 KEY STRATEGIES 219

12.4 TORAY INDUSTRIES INC. 220

12.4.1 COMPANY OVERVIEW 220

12.4.2 FINANCIAL OVERVIEW 220

12.4.3 PRODUCTS OFFERED 221

12.4.4 KEY DEVELOPMENT 221

12.4.5 SWOT ANALYSIS 222

12.4.6 KEY STRATEGIES 222

12.5 OWENS CORNING 223

12.5.1 COMPANY OVERVIEW 223

12.5.2 FINANCIAL OVERVIEW 223

12.5.3 PRODUCTS OFFERED 224

12.5.4 KEY DEVELOPMENTS 224

12.5.5 SWOT ANALYSIS 225

12.5.6 KEY STRATEGIES 225

12.6 TEIJIN LIMITED 226

12.6.1 COMPANY OVERVIEW 226

12.6.2 FINANCIAL OVERVIEW 226

12.6.3 PRODUCTS OFFERED 227

12.6.4 KEY DEVELOPMENTS 227

12.6.5 SWOT ANALYSIS 228

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12.6.6 KEY STRATEGIES 228

12.7 HEXCEL CORPORATION 229

12.7.1 COMPANY OVERVIEW 229

12.7.2 FINANCIAL OVERVIEW 230

12.7.3 PRODUCTS OFFERED 230

12.7.4 KEY DEVELOPMENTS 231

12.7.5 SWOT ANALYSIS 232

12.7.6 KEY STRATEGIES 232

12.8 SGL CARBON 233

12.8.1 COMPANY OVERVIEW 233

12.8.2 FINANCIAL OVERVIEW 233

12.8.3 PRODUCTS OFFERED 234

12.8.4 KEY DEVELOPMENTS 234

12.8.5 SWOT ANALYSIS 235

12.8.6 KEY STRATEGIES 235

12.9 MITSUBISHI CHEMICAL CORPORATION 236

12.9.1 COMPANY OVERVIEW 236

12.9.2 FINANCIAL OVERVIEW 236

12.9.3 PRODUCTS OFFERED 237

12.9.4 KEY DEVELOPMENTS 237

12.9.5 SWOT ANALYSIS 238

12.9.6 KEY STRATEGIES 238

12.10 SOLVAY 239

12.10.1 COMPANY OVERVIEW 239

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12.10.2 FINANCIAL OVERVIEW 240

12.10.3 PRODUCTS OFFERED 241

12.10.4 KEY DEVELOPMENTS 241

12.10.5 SWOT ANALYSIS 242

12.10.6 KEY STRATEGIES 242

12.11 HUNTSMAN INTERNATIONAL LLC 243

12.11.1 COMPANY OVERVIEW 243

12.11.2 FINANCIAL OVERVIEW 243

12.11.3 PRODUCTS OFFERED 244

12.11.4 KEY DEVELOPMENTS 244

12.11.5 SWOT ANALYSIS 245

12.11.6 KEY STRATEGIES 245

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