The Global Market for Composites: Resins, Fillers, Reinforcements, Natural Fibers & Nanocomposites

Description:

This report covers both thermosets and thermoplastics that use reinforcements to increase their respective property profiles for 2014, 2015 and 2020. These fibrous reinforcements include all glass fiber variants, carbon, boron, ceramic, aramid and stainless steel fibers, and so forth.

This report provides:
- An overview of the global market for reinforced plastic composites including resins, fillers, reinforcements, natural fibers & nanocomposites.
- Analyses of global market trends, with data from 2014, 2015, and projections of compound annual growth rates (CAGRs) through 2020.
- Segmentation of the major components of this market into its resin, technology, and applications components.
- Coverage of relevant applications including automotive; construction/infrastructure including anti-corrosion and panel products; marine markets; aerospace; electronic parts/components; appliances; consumer products (sport and leisure, lawn/garden products, etc.); and a miscellaneous category.
- Analysis of the market's dynamics, specifically growth drivers, inhibitors, and opportunities.
- Profiles of major players in the industry.

Scope of the Study:

This report covers both thermosets and thermoplastics that use reinforcements to increase their respective property profiles for 2014, 2015 and 2020. These fibrous reinforcements include all glass fiber variants, carbon, boron, ceramic, aramid and stainless steel fibers, and so forth.

There is some confusion as to the overlapping of the terms “reinforced plastics”; and “composites”. According to several standard plastic dictionaries, these two terms are considered synonymous. However, one distinction between these two terms, cited by some within the industry, is that composites refer to those reinforced resins that can “support a load”; or are “structurally reinforced”. This definition is also somewhat arbitrary since it is not clear what constitutes “supporting a load” or “structurally reinforced”.

Therefore, in this report, to simplify matters, the term “reinforced plastic composites” will be used to depict market sizes and forecasts. Since reinforcements are almost always based on fibers, the term “reinforced” is somewhat redundant and will not used unless it is a significant issue.

Within the text of the report, the terms “reinforced plastics” and/or “composites” will be used depending on the sources of information and analysis of these specific instances.

Readers should be aware that, in many instances, upgraded resins have been called both “reinforced” and/or “composites”. In addition, most resins being reinforced with what are called “advanced” reinforcements such as carbon fibers and aramid are most often termed “composites” especially in the construction, aerospace, auto and several other industries such as wind energy and anti-corrosion, among others.

Current and forecasted quantitative market estimates will be provided for all appropriate thermoset and thermoplastic reinforced composites by application, along with detailed descriptions of the major types of reinforcements. Furthermore, the volumes of products shown in the tables refer only to the estimated weight of the resins and exclude weights of reinforcements. The quantitative information contained in all data tables refers to the global market.

Applications in this report include automotive; construction/infrastructure, including other construction products, panels and bathroom products; anti-corrosion products; marine markets; aerospace (mostly aircraft); electronic parts/components; appliances; and consumer products such as medical devices, sport and leisure, and lawn/garden products as well as a miscellaneous market, which covers the power market and other transportation areas such as rail, wind energy products and others.
Use this report to:

- Analyze market sizes and forecasts of reinforced plastic composites.
- Receive information about fibrous reinforcements including all glass fiber variants, carbon, boron, ceramic, aramid and stainless steel fibers.
- Analyze environmental benefits of reinforced plastic composites and special concerns related to recycling.
- Analyze recent developments and potential problems with fuselage components.

Highlights:

- The global reinforced plastic composite market will grow from 14.8 billion pounds in 2015 to roughly 17.6 billion pounds by 2020, a compound annual growth rate (CAGR) of 3.5% for the period of 2015-2020.
- Construction is the largest segment of the overall global market and should reach approximately 3.5 billion pounds in 2015 and nearly 4.2 billion pounds by 2020, a CAGR of 3.5%.
- Automotive is expected to increase from nearly 3.2 billion pounds in 2015 to nearly 3.9 billion pounds in 2020, with a CAGR of 3.6%.

Intended Audience:

Those in the plastic reinforcement/composite market will be most interested in new developments in this field, along with plastic producers and many in the major end-use industries such the auto, construction, aviation, anti-corrosion and marine markets.

Resin producers will find valuable information in terms of expected increases or declines in specific plastic usage in these markets. It also seems probable that those companies involved in acquisitions/divestiture activities may be interested in examining this field for potential new clients.

Contents:

Chapter- 1: INTRODUCTION -

    REASONS FOR DOING THE STUDY
    - STUDY GOALS
    - SCOPE OF THE STUDY
    - INTENDED AUDIENCE
    - METHODOLOGY
    - ANALYST’S CREDENTIALS

Chapter- 2: SUMMARY

- Table Summary : GLOBAL REINFORCED PLASTIC COMPOSITE MARKET BY APPLICATION, THROUGH 2020
- Figure Summary : GLOBAL REINFORCED PLASTIC COMPOSITE MARKET BY APPLICATION, 2014-2020

Chapter- 3: REINFORCEMENTS

- OVERVIEW
- NONFIBROUS
- FIBER-REINFORCED PLASTICS
- FIBROUS MATERIALS
- POLYMER NANOCOMPOSITES
- CARBON NANOTUBES

Chapter- 4: REINFORCED PLASTIC COMPOSITES

- BACKGROUND
- THERMOSETS
- THERMOPLASTICS

Chapter- 5: OTHER IMPORTANT GROUPINGS OF REINFORCED PLASTICS/COMPOSITES

- OVERVIEW
- GLASS MAT THERMOPLASTICS (GMTS)
- LONG FIBER-REINFORCED THERMOPLASTICS (LFRTS)
- THERMOSET RESINS

Chapter- 6: APPLICATIONS
- OVERVIEW
- AUTOMOTIVE
- CONSTRUCTION/INFRASTRUCTURE
- ANTI-CORROSION MARKETS
- MARINE MARKETS
- ELECTRONICS
- APPLIANCES
- AEROSPACE
- CONSUMER PRODUCTS
- SUMMARY OF REINFORCED PLASTICS APPLICATIONS MARKET
- OBSERVATIONS AND ISSUES CONCERNING THE FUTURE OF THE GLOBAL REINFORCED PLASTIC COMPOSITE MARKET

Chapter- 7: ENVIRONMENTAL AND RECYCLING ISSUES
- ENVIRONMENTAL BENEFITS OF REINFORCED PLASTIC COMPOSITES
- RECYCLING

Chapter- 8: COMPANY PROFILES
- ADVANCED COMPOSITES INC.
- ALBANY ENGINEERED COMPOSITES
- AOC LLC
- ASHLAND SPECIALTY CHEMICAL COMPANY
- BULK MOLDING COMPOUNDS INC.
- THE COMPOSITES GROUP
- CONTINENTAL STRUCTURAL PLASTICS
- COOK COMPOSITES AND POLYMERS (CCP)
- CORE MOLDING TECHNOLOGIES
- DSM ENGINEERING PLASTICS NORTH AMERICA
- FERRO CORP.
- GEORGIA-PACIFIC CHEMICALS LLC
- GLASFORMS INC.
- GURIT SERVICES AG
- HANWHA AZDEL SPECIALTIES
- HAYSITE REINFORCED PLASTICS
- HEXCEL CORP.
- HEXION
- IDI COMPOSITES INTERNATIONAL
- INTERPLASTIC CORP.
- KRINGLAN COMPOSITES AG
- LNP ENGINEERING PLASTICS
- OWENS CORNING
- PLASAN CARBON COMPOSITES
- QUADRANT PLASTIC COMPOSITES
- REICHHOLD CHEMICAL
- RTP COMPANY
- SAERTEX GMBH & COMPANY
- SGL CARBON GROUP
- TEIJIN, LIMITED
- TORAY INDUSTRIES INC.

Chapter- 9: ACRONYMS

Chapter- 10: GLOSSARY OF TERMS

List of Tables

Summary Table: GLOBAL REINFORCED PLASTIC COMPOSITE MARKET BY APPLICATION, THROUGH 2020
Table 1: ADVANTAGES OF SOLID GLASS MICROSPHERES
Table 2: IMPORTANT GLASS FIBER SUPPLIERS
Table 3: LEADING GLOBAL CARBON FIBER PRODUCERS
Table 4: ADVANTAGES AND DISADVANTAGES OF CARBON COMPOSITES
Table 5: KEY NATURAL FIBERS AND MAJOR CULTIVATION AREAS
Table 6: KEY NANOCOMPOSITE SUPPLIERS
Table 51: GLOBAL MARKET FOR REINFORCED EPOXY COMPOSITES BY APPLICATION, THROUGH 2020
Table 52: KEY REINFORCED PHENOLIC COMPOSITES TRADE NAMES AND SUPPLIERS
Table 53: GLOBAL MARKET FOR REINFORCED PHENOLIC COMPOSITES BY APPLICATION, THROUGH 2020
Table 54: GLOBAL MARKET FOR REINFORCED POLYURETHANE COMPOSITES BY APPLICATION, THROUGH 2020
Table 55: GLOBAL MARKET FOR REINFORCED OTHER THERMOSET COMPOSITES BY APPLICATION, THROUGH 2020
Table 56: GLOBAL MARKET SUMMARY OF REINFORCED THERMOSET COMPOSITES BY RESIN, THROUGH 2020
Table 57: GLOBAL MARKET SUMMARY OF REINFORCED THERMOSET COMPOSITES BY RESIN, THROUGH 2020
Table 58: GLOBAL COMPOSITE RESIN MARKET BY REGION, THROUGH 2020
Table 59: EXPECTED TOTAL AUTOMOTIVE CONSUMPTION BY MATERIAL, THROUGH 2020
Table 60: SELECTED AUTOMOTIVE UNDER-THE-HOOD REINFORCED RESIN COMPOSITES BY PART
Table 61: GLOBAL REINFORCED PLASTIC COMPOSITE AUTOMOTIVE UTH MARKET BY RESIN, THROUGH 2020
Table 62: RESINS USED FOR SPECIFIC EXTERIOR AUTOMOTIVE PARTS
Table 63: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITE AUTOMOTIVE EXTERIOR MARKET, THROUGH 2020
Table 64: RESINS USED FOR SPECIFIC INTERIOR AUTOMOTIVE PARTS
Table 65: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITES IN AUTOMOTIVE INTERIORS BY RESIN, THROUGH 2020
Table 66: GLOBAL REINFORCED PLASTIC COMPOSITE AUTOMOTIVE MARKET BY RESIN, THROUGH 2020
Table 67: FUEL CELL PRODUCERS
Table 68: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITE CONSTRUCTION/INFRASTRUCTURE BY RESIN, THROUGH 2020
Table 69: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITES ANTI-CORROSION MARKET BY RESIN, THROUGH 2020
Table 70: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITE MARINE PRODUCTS BY RESIN, THROUGH 2020
Table 71: IMPORTANT TECHNICAL FACTORS TO CONSIDER WHEN SELECTING PCB SUBSTRATE MATERIALS
Table 72: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITE ELECTRONICS MARKET BY RESIN, THROUGH 2020
Table 73: SELECTED MAJOR APPLICATIONS FOR POLYMERS IN APPLIANCES
Table 74: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITE APPLIANCE MARKET BY RESIN, THROUGH 2020
Table 75: GLOBAL REINFORCED PLASTIC COMPOSITE AEROSPACE MARKET BY RESIN, THROUGH 2020
Table 76: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITE CONSUMER PRODUCTS BY RESIN, THROUGH 2020
Table 77: GLOBAL REINFORCED PLASTIC COMPOSITE MISCELLANEOUS MARKETS BY RESIN, THROUGH 2020
Table 78: GLOBAL MARKET FOR REINFORCED PLASTIC COMPOSITE MARKET BY APPLICATION, THROUGH 2020

List of Figures

Summary Figure: GLOBAL REINFORCED PLASTIC COMPOSITE MARKET BY APPLICATION, 2014-2020

Ordering:
Order Online - [http://www.researchandmarkets.com/reports/3632368/](http://www.researchandmarkets.com/reports/3632368/)
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: The Global Market for Composites: Resins, Fillers, Reinforcements, Natural Fibers & Nanocomposites
Web Address: http://www.researchandmarkets.com/reports/3632368/
Office Code: SCH3S6JO

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Product Format</th>
<th>Quantity</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User:</td>
<td>☐</td>
<td>USD 6650</td>
</tr>
<tr>
<td>Electronic (PDF) - 1 - 5 Users:</td>
<td>☐</td>
<td>USD 8500</td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide:</td>
<td>☐</td>
<td>USD 15000</td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: [ ] Mr [ ] Mrs [ ] Dr [ ] Miss [ ] Ms [ ] Prof
First Name: ___________________________ Last Name: ___________________________
Email Address: * ___________________________
Job Title: ___________________________
Organisation: ___________________________
Address: ___________________________
City: ___________________________
Postal / Zip Code: ___________________________
Country: ___________________________
Phone Number: ___________________________
Fax Number: ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:
Marketing Code:

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp