

# Opportunities for Composites in the Global Rail Market 2013-2018, April 2013

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# Abstracts

The total global rail market is expected to witness good growth and reach an estimated \$278 billion in 2018. Composite materials consumption in the global rail industry experienced high double-digit growth from 2007 to 2012. Greater growth in composites material consumption compared to the growth in the number of global railcars sold demonstrates the increase in the average composite materials content per vehicle over those five years. Recent research indicates that the rail composites market will be in a higher growth phase in 2013-2014 Composites consumption in the global rail market in terms of end market is expected to reach \$428.4 million in 2018.

Lucintel, a leading global management consulting and market research firm, has conducted an analysis of the industry and presents its findings in "Opportunities for Composites in the Global Rail Market 2013- 2018." In the global rail market, Asia Pacific (APAC) is anticipated to witness the highest growth, followed by the Rest of the World, Europe, and North America.

Composites use in the global rail is primarily driven by weight reduction, which increases the speed of the train and FST performance, which increases the safety. Some challenges exist, however, such as the high cost of composites compared to metals, lack of proper joining techniques, absence of standardization (in terms of material grade), and poor reparability and recyclability. These challenges all threaten to limit the penetration of composites in high-speed rail applications.

The market is highly dominated by the polyester resin due to cost competitiveness. Most of the composite materials used are based on glass/polyester laminates followed by the glass/phenolic laminates. Use of the latter is confined to high fire risk applications, such as trains that frequently go through tunnels.



The report, which provides trend scenarios and forecast statistics for 2013-2018; details industry drivers and challenges; global rail market analysis by types of rail cars and regions; describes industry leaders; highlights composite materials and their applications in rail industry; presents an overview of composites applications in rail market; discuses composites rail tie manufacturers; and more.

This unique report from Lucintel will provide you with valuable information, insights, and tools needed to identify new growth opportunities and operate your business successfully in this market. This report will save hundreds of hours of your own personal research time and will significantly benefit you in expanding your business in this market. In today's stringent economy, you need every advantage that you can find.



# Contents

#### **1. EXECUTIVE SUMMARY**

#### 2. GLOBAL RAIL INDUSTRY: PAST, PRESENT, AND FUTURE

- 2.1: Past (200 Years of History in Brief)
- 2.2: Present
- 2.3: Future

#### 3. GLOBAL RAIL MARKET ANALYSIS

- 3.1: Market by types of railcars
  - 3.1.1: High speed rail
  - 3.1.2: Heavy rail (metro/rapid transit)
  - 3.1.3: Light rail (urban trams)
  - 3.1.4: Locomotives
- 3.2: Market by region
  - 3.2.1: Europe
  - 3.2.2: North American
  - 3.2.3: APAC

### 4. TREND AND FORECAST IN GLOBAL RAIL MARKET

- 4.1: Trends in rail
  - 4.1.1: Global rail market trends by region
- 4.2: Trends in railcar
- 4.2.1: Global railcars market trend by region
- 4.3: Forecasts in rail market
- 4.3.1: Global rail market forecast by region
- 4.4: Forecasts in railcars
  - 4.4.1: Global rolling stock market forecast by region
  - 4.4.2: The orders of today become the sales of tomorrow
  - 4.4.3: Order Backlogs

### 5. GLOBAL RAIL MARKET: INDUSTRY LEADERS

- 5.1: Total sales by major OEMs
- 5.2: Product review of major global rail OEMs



- 5.2.1: Product portfolio analysis
- 5.2.2: Bombardier transportation
- 5.2.3: Alstom transportation
- 5.2.4: CSR
- 5.2.5: China CNR

## 6. COMPOSITE MATERIALS AND THEIR APPLICATIONS IN RAIL INDUSTRY

- 6.1: Life-Cycle cost considerations in choosing materials
- 6.2: Raw materials used by component manufacturers
  - 6.2.1: Reinforcement
  - 6.2.2: Resins
  - 6.2.3: Core Material
  - 6.2.4: Prepreg
- 6.3: Raw material suppliers to the rail industry
  - 6.3.1: Reinforcement fiber/fabric suppliers
  - 6.3.2: Resin suppliers
  - 6.3.3: Core materials suppliers
  - 6.3.4: Prepreg suppliers:
- 6.4. Overview of composites applications in rail market
- 6.5: Composite applications in trains
  - 6.5.1: Alstom TGVs
  - 6.5.2: Kawasaki Shinkansen
  - 6.5.3: Amtrak Acela
  - 6.5.4: Siemens Velaro
  - 6.5.5: Magnetic Levitation
  - 6.5.6: Alstom AGV
  - 6.5.7: Bombardier Regina
  - 6.5.8: Bombardier Talent
  - 6.5.9: Bombardier Turbostar
  - 6.5.10: Bombardier Innovia
  - 6.5.11: Siemens Combino Tram
  - 6.5.12: Austrian Bayerische Oberlandbahn
- 6.6: Core material applications in trains
  - 6.6.1: DIAB
  - 6.6.2: Alcan Airex
- 6.7: Interior applications
- 6.8: Exterior applications
- 6.9: Composite materials requirements



#### 6.10: Fire standards

- 6.10.1: British standard BS6853:1999
- 6.10.2: France standard NF F 16-101/NF F 16-102
- 6.10.3: German standard DIN 5510-2: 1988
- 6.10.4: EU standard EN 45545: 1988
- 6.10.5: United States standard NFPA 130:2000
- 6.10.6: Italy standard prE10.02.977.3
- 6.11: Property comparison
- 6.12: Fire performance of phenolic
- 6.13: Categories of trains as per BS6853
- 6.14: Composites market analysis in rail
- 6.15: Composites consumption by material type (raw material)
- 6.15.1: Composites consumption by resin type
- 6.15.2: Composites consumption by fiber type
- 6.16: Composites consumption by material type (end market)
- 6.16.1: Composites consumption by resin type
- 6.16.2: Composites consumption by fiber type
- 6.17: Composite materials consumption by application (end market)
- 6.18: Composites consumption by region
- 6.19: Composites consumption by manufacturing process (end market)
  - 6.19.1: Hand lay-Up / Wet Lay-Up Process
  - 6.19.2: RTM Process
  - 6.19.3: VARTM Process
  - 6.19.4: SCRIMP Process
  - 6.19.5: Prepreg Lay-up Process
  - 6.19.6: Pultrusion
- 6.20: Composites rail tie manufacturers
  - 6.20.1: Recycle Technologies International (RTI)
  - 6.20.2: Tie Tek
  - 6.20.3: Axion International
  - 6.20.4: Performance Rail Tie
  - 6.20.5: IntegriCo Composites

#### 7. TREND AND FORECAST OF COMPOSITES IN RAIL MARKET

- 7.1: Driving forces and challenges
- 7.2: Overall trends
  - 7.2.1: Trends by region (end market)
  - 7.2.2: Trends by process (end market)



- 7.2.3: Trends by resin type (end market)
- 7.2.4: Trends by fiber (end market)

### 7.3: Overall forecast

- 7.3.1: Forecast by region (end market)
- 7.3.2: Forecast by manufacturing process (end market)
- 7.3.3: Forecast by resin (end market)
- 7.3.4: Forecast by fiber (end market)
- 7.4: Rail composites tie market

### 8. RAIL COMPOSITES COMPONENT MOLDERS

- 8.1: Overview of component molders
- 8.2: Composites component suppliers
- 8.2.1: AAR Composites
- 8.2.2: Able Manufacturing and Assembly
- 8.2.3: Aim Composites Ltd.
- 8.2.4: ApATech
- 8.2.5: Azdel
- 8.2.6: Beard and Cornall
- 8.2.7: Creative Pultrusion, Inc
- 8.2.8: Dartford Composites Ltd.
- 8.2.9: Ebo System
- 8.2.10: Ernst Kuhne Kunststoffwerk GmbH & Co. KG
- 8.2.11: Exel Composites
- 8.2.12: Faiveley Transport
- 8.2.13: Fiberline A/S
- 8.2.14: Fibrocom
- 8.2.15: Horlacher
- 8.2.16: Hubner-Germany
- 8.2.17: Intermountain Design
- 8.2.18: Joptek
- 8.2.19: Jupiter Plast Composites
- 8.2.20: Kemrock
- 8.2.21: Magee Plastics Company
- 8.2.22: Martin Marietta Materials
- 8.2.23: McClarin Plastics
- 8.2.24: Miles Fiberglass & Composites
- 8.2.25; Rochling Group
- 8.2.26: Stillman Northern



- 8.2.27: Stratiforme
- 8.2.28: Stratime Composites Systemes
- 8.2.29: Temoinsa
- 8.2.30: Testori Americas
- 8.2.31: Texstars Inc.
- 8.2.32: TPI Composites
- 8.2.33: Top Glass S.P.A.
- 8.2.34: Premier Composite Technologies (PCT)
- 8.2.35: Haysite Reinforced Plastics Co.



# **List Of Figures**

#### **LIST OF FIGURES**

Chapter 1. Executive Summary

Figure 1.1: Porter's Five Forces model for the global rail market

Figure 1.2: Porter's Five Forces model for the composites market in global rail market

(end market perspective)

- Chapter 2. Global Rail Industry: Past, Present, and Future
- Figure 2.1: Top speed gained by locomotives at different times

Figure 2.2: Passenger - kilometer in 2010

Figure 2.3: Length of rail lines – globally

Figure 2.4: Current records for top speeds by traction type

Figure 2.5: Price of single global railcars by category

Chapter 3. Global Rail Market by Type of Cars

Figure 3.1: Global rolling stock market by region in 2012 by percentage of total shipments

- Figure 3.2: Siemens' Venturio
- Figure 3.3: Alstom's TGV
- Figure 3.4: Bombardier's Metro at Delhi, India
- Figure 3.5: Siemens' VAL
- Figure 3.6: Alstom's Citadis Tram
- Figure 3.7: Siemens' Avanto
- Figure 3.8: Alstom prima locomotive
- Figure 3.9: Global rolling stock market by region in 2012
- Chapter 4. Trend and Forecast in Global Rail Market
- Figure 4.1: Trends in the global rail industry sales from 2007 to 2012

Figure 4.2: Trend of global rolling stock market by region from 2007-2012 in \$B shipment

Figure 4.3: Growth of global rail vehicle sales from 2007 to 2012

Figure 4.4: Global rolling stock market trend in unit shipment

Figure 4.5: Trend of global rolling stock market by region from 2007-2012 in \$B shipment

Figure 4.6: Trends in the global rail industry sales from 2013 to 2018

Figure 4.7: Trend of global rolling stock market by region from 2013-2018 in \$B shipment

Figure 4.8: Forecast in the global rail industry sales from 2013 to 2018

Figure 4.9: Geographical segmentation of global rail market for new railcars 2018

Figure 4.10: Forecast of global rail market for new railcars from 2013 to 2018



Figure 4.11: Bombardier's global railcars total orders received from 2007 to 2012 (calendar years) in billion dollars

Figure 4.12: Alstom transportation total orders received from 2007 to 2012 (calendar years) in billion dollars

Figure 4.13: Siemens TS total orders received from 2007 to 2012 (fiscal years) in billion dollars

Figure 4.14: Kawasaki's total orders received from 2007 to 2012 (fiscal years) in million dollars

Figure 4.15: Regional breakdown of the bombardier order backlog in 2012

Figure 4.16: Bombardier global rail order backlog trends from 2007 to 2012 in billion dollars

Figure 4.17: Alstom order backlog in 2012

Figure 4.18: Alstom global rail order backlog trends from 2007-2012 in billion dollars

Chapter 5. Trends and Forecasts in Global Rail Market

Figure 5.1: Total sales of major oems in the global rail industry from 2007 to 2012

Figure 5.2: Bombardier people mover - Innovia

Figure 5.3: Bombardier Monorail

Figure 5.4: Bombardier Monorail Flexity

Figure 5.5: Bombardier Flexity Tram

Figure 5.6: Bombardier Metro – Movia Train

Figure 5.7: Bombardier Intercity Train

Figure 5.8: Newly Launched Bombardier Zefiro Train

Figure 5.9: Bombardier TRAXX Locomotive

Figure 5.10: Alstom Citadis Tram

Figure 5.11: Alstom Metropolis

Figure 5.12: Alstom X'Trapolis

Figure 5.13: Alstom Coradia

Figure 5.14: Alstom TGV

Figure 5.15: Alstom Pendolino

Figure 5.16: Alstom Prima El Loco

Figure 5.17: CSR Electric Locomotive

Figure 5.18: CSR Diesel Locomotive

Figure 5.19: CSR Passenger Coach

Figure 5.20: CSR Air-conditioned Passenger Coach

Figure 5.21: CSR Freight Wagon

Figure 5.22: CSR Subway Train

Figure 5.23: CSR Pioneer MU

Figure 5.24: CNR Electric Locomotive ?Sky Shuttle?

Figure 5.25: CNR DF11D Diesel Locomotive



- Figure 5.26: CNR Passenger Coach 25Z Family
- Figure 5.27: CNR Freight Wagon P65
- Figure 5.28: CNR Rapid Transit Vehicle DK32
- Figure 5.29: CNR Electrical MUs
- Figure 5.30: CNR Diesel MUs (?Putian? 160 km/h Concentrated Power Diesel Tiltin)
- Figure 5.31: CNR Light Rail
- Chapter 6. Composite Materials and their Applications in Rail Industry
- Figure 6.1: Front nose made of composites in Alstom TGV
- Figure 6.2: Front nose made of composites in Alstom Kawasaki
- Figure 6.3: Front nose made of composites in Amtrak Acela
- Figure 6.4: Amtrak Acela using composites
- Figure 6.5: Front Nose made of composites in Siemens Velaro
- Figure 6.6: Composites car body in maglev
- Figure 6.7: Bombardier Regina uses composites
- Figure 6.8: KTK group interior components -DIAB- Shanghai Metro
- Figure 6.9: Front exterior panel over the bumper guards -DIAB- Regio Shuttle Train
- Figure 6.10: Alcan core material used on raw cabins
- Figure 6.11: Roofs and intermediate floors for rail vehicles Alcan core material
- Figure 6.12: Toilet modules
- Figure 6.13: Toilet seat
- Figure 6.14: Interior lining at QEBB
- Figure 6.15: Battery box cover at ICS Double-Decker
- Figure 6.16: Cab-door-liner
- Figure 6.17: Window mask for rail
- Figure 6.18: Cab console shroud
- Figure 6.19: Cab Door
- Figure 6.20: Luggage Bin
- Figure 6.21: Ceiling Access Panel
- Figure 6.22: Sitzschalen Transpole Metro-Seat Shell
- Figure 6.23: Composites BART Floor
- Figure 6.24: Oxygen-distributor-cover
- Figure 6.25: Septa car window panel
- Figure 6.26: Console knee panel
- Figure 6.27: Toilet modules
- Figure 6.28: Maglev
- Figure 6.29: Maglev
- Figure 6.30: GM locomotive nose intermountain design
- Figure 6.31: Skirts used at stadlar
- Figure 6.32: Shinkansen Bullet Train in which front noses are made of composites



Figure 6.33: People mover intermountain design

Figure 6.34: Alcan VAC raw cabins ready for assembly and paintwork

Figure 6.35: GE front cab

Figure 6.36: Alcan - FLIRT regional train's cabins

Figure 6.37: DV - 12 locomotives door

Figure 6.38: ICS Double-Decker's end cover

Figure 6.39: Composites consumption by material (raw market) in the global rail market 2012

Figure 6.40: Composites consumption by material (raw market) in the global rail market 2012

Figure 6.41: Composites consumption by resin (raw market) in the global rail market 2012

Figure 6.42: Composites consumption by resin (raw market) in the global rail market 2012

Figure 6.43: Composites consumption by fiber (raw market) in the global rail market 2012

Figure 6.44: Composites consumption by fiber (raw market) in the global rail market 2012

Figure 6.45: Composite materials consumption by type of resin by value in 2012 (end market)

Figure 6.46: Composites consumption by type of fiber by value 2012 (end market)

Figure 6.47: Composite materials consumption by application in million dollars in 2012 (end market)

Figure 6.48: Composite materials consumption by application in million pounds in 2012 (end market)

Figure 6.49: Composites consumption by region by million dollars in 2012 (end market)

Figure 6.50: Composites consumption by region by million pounds in 2012 (end market) Figure 6.51: SCRIMP Process

Figure 6.52: Composite materials consumption by major manufacturing processing techniques in million dollars in 2012 (end market)

Figure 6.53: Composite materials consumption by major manufacturing processing techniques in million pounds in 2012 (end market)

Figure 6.54: Composite materials consumption by manufacturing process technique by million dollars in 2012 (end market)

Figure 6.55: Composite materials consumption by weight by manufacturing process technique in 2012 (end market)

Figure 6.56: China transit authority composites cross ties

Figure 6.57: Some rail tie manufacturers and their rail tie products

Figure 6.58: Rail Tie - RTI



Chapter 7. Trend and Forecast of Composites in Rail Market

Figure 7.1: Drivers and challenges for composites in rail

Figure 7.2: Composites consumption trends in global railcars in \$M from 2007-2012 in terms of end market

Figure 7.3: Composite materials consumption trends in the global rail market from 2007 to 2012

Figure 7.4: Composites consumption by region (end market) (\$M) in the global rail market 2007

Figure 7.5: Composites consumption by region (end market) (\$M) in the global rail market 2011

Figure 7.6: Composites consumption by region (end market) (\$M) in the global rail market 2012

Figure 7.7: Composites consumption by region (end market) (M pounds) in the global rail market 2007

Figure 7.8: Composites consumption by region (end market) (M pounds) in the global rail market 2011

Figure 7.9: Composites consumption by region (end market) (M pounds) in the global rail market 2012

Figure 7.10: Composites consumption by manufacturing process (end market) in the global rail market 2007

Figure 7.11: Composites consumption by manufacturing process (end market) in the global rail market 2011

Figure 7.12: Composites consumption by manufacturing process (end market) in the global rail market 2012

Figure 7.13: Composites consumption by manufacturing process (end market) in the global rail market 2007

Figure 7.14: Composites consumption by manufacturing process (end market) in the global rail market 2011

Figure 7.15: Composites consumption by manufacturing process (end market) in the global rail market 2012

Figure 7.16: Composites consumption by resin (end market) (\$M) in the global rail market 2007

Figure 7.17: Composites consumption by resin (end market) (\$M) in the global rail market 2011

Figure 7.18: Composites consumption by resin (end market) (\$M) in the global rail market 2012

Figure 7.19: Composites consumption by fiber (end market) (\$M) in the global rail market 2007

Figure 7.20: Composites consumption by fiber (end market) (\$M) in the global rail



market 2011

Figure 7.21: Composites consumption by fiber (end market) (\$M) in the global rail market 2012

Figure 7.22: Composites consumption forecast in the global railcar market by \$M from 2013 to 2018 in terms of end market

Figure 7.23: Composites material consumption forecast in the global railcar market by million pounds from 2013 to 2018

Figure 7.24: Composites consumption by region (end market) (\$M) in the global rail market 2013

Figure 7.25: Composites consumption by region (end market) (\$M) in the global rail market 2018

Figure 7.26: Composites consumption by region (end market) (M pounds) in the global rail market 2013

Figure 7.27: Composites consumption by region (end market) (M pounds) in the global rail market 2018

Figure 7.28: Composites consumption by manufacturing process (end market) in the global rail market 2013

Figure 7.29: Composites consumption by manufacturing process (end market) in the global rail market 2018

Figure 7.30: Composites consumption by manufacturing process (end market) in the global rail market 2013

Figure 7.31: Composites consumption by manufacturing process (end market) in the global rail market 2018

Figure 7.32: Composites consumption by resin (end market) (\$M) in the global rail market 2013

Figure 7.33: Composites consumption by resin (end market) (\$M) in the global rail market 2018

Figure 7.34: Composites consumption by fiber (end market) (\$M) in the global rail market 2013

Figure 7.35: Composites consumption by fiber (end market) (\$M) in the global rail market 2018



# **List Of Tables**

#### LIST OF TABLES

Chapter 1. Executive Summary

Table 1.1: Market parameters for the global railcar market and attributes of usage

Table 1.2: Market parameters for the end product usage of composites in global rail market and attributes of usage

Chapter 2. Global Rail Industry: Past, Present, and Future

Table 2.1: Passenger traffic trends around the world (in billions passenger-kilometers)

Table 2.2: Length of lines around the world (in kilometers)

Table 2.3: Country using different rail gauges

Table 2.4: Top OEMs segmentation by train type

Table 2.5: GDP, industrial production, and unemployment rate for leading countries

Table 2.6: Interest and exchange rates for leading countries interest rate (%) P.A.

(January 15, 2013)

Table 2.7: Emerging market indicators (economy and financial market)

Chapter 3. Global Rail Market by Type of Cars

Table 3.1: List of counties with their total high-speed rail network in 2012

Chapter 4. Trend and Forecast in Global Rail Market

Table 4.1: Growth of global rail vehicle sales in billion dollars

Table 4.2: Growth of global rail vehicle sales in units

Table 4.3: Bombardier's global railcars total orders received from 2007 to 2012

(calendar years) - billion dollar

Table 4.4: Alstom's transportation total orders received from 2007 to 2012 (calendar years) – billion dollar

Table 4.5: Siemens total orders received from 2007 to 2012 (fiscal years) - billion dollar

Table 4.6: Kawasaki's total orders received from 2007 to 2012 (fiscal years) – million dollar

Table 4.7: Top global railcar manufacturers order backlog trends from 2007 to 2012

Chapter 5. Trends and Forecasts in Global Rail Market

Table 5.1: Product portfolio analysis for global rail manufacturers

Chapter 6. Composite Materials and their Applications in Rail Industry

Table 6.1: List of materials found in global rail vehicle applications

Table 6.2: List of rail composites product manufacturer with matrix and reinforcements

Table 6.3: Properties of fibers and conventional bulk materials

Table 6.4: Reinforcement suppliers

Table 6.5: Owens corning rail composites applications

Table 6.6: PPG's rail composites applications



- Table 6.7: Ahlstrom's rail composites applications
- Table 6.8: Johns manville rail composites applications
- Table 6.9: Parabeam's rail composites applications
- Table 6.10: Hankuk's rail composites applications
- Table 6.11: List of resin and additive suppliers
- Table 6.12: Core material suppliers
- Table 6.13: Applications in train by fiber and resin
- Table 6.14: Core material manufacturer supplies to passenger rail industry
- Table 6.15: List of rail composites interiors
- Table 6.16: List of rail composites exteriors
- Table 6.17: BS6853:1999 the main fire test standards
- Table 6.18: France standard NF F 16-101: 1988 the main fire test standard
- Table 6.19: German standard DIN 5510-2: 1988 the main fire test standard
- Table 6.20: EN 45545: 1988 the main fire testing standard
- Table 6.21: NFPA 130:2000 the main fire testing standard
- Table 6.22: Comparison of the performance of phenolic, polyester, and metals
- Table 6.23: Fire performance of phenolic resin
- Table 6.24: Comparison of different composites
- Table 6.25: Toxicity of different gases
- Table 6.26: Show the different parameters as per BS 6853 standard
- Table 6.27: TRAXX locomotive's material distribution
- Table 6.28: Processes used and parts produced by select manufactures of composites
- Chapter 8. Rail Composites Component Molders
- Table 8.1: Molders by resin material employed
- Table 8.2: Molders by manufacturing processes employed
- Table 8.3: AAR composites rail
- Table 8.4: Able manufacturing & assembly rail composites information
- Table 8.5: Aim Composites Ltd. Rail composites information
- Table 8.6: ApATeCh rail composites information
- Table 8.7: Azdel, Inc. rail composites information
- Table 8.8: Beard & Cornall rail composites information
- Table 8.9: Creative Composites Ltd rail composites information
- Table 8.10: Dartford Composites Ltd. rail composites information
- Table 8.11: Ebo Systems rail composites information
- Table 8.12: Ernst K?hne Kunststoffwerk rail composites information
- Table 8.13: Exel composites rail composites information
- Table 8.14: Faiveley transport rail composites information
- Table 8.15: Fiberline rail composites information
- Table 8.16: Fibrocom rail composites information



- Table 8.17: Horlacher rail composites information
- Table 8.18: Hubner-Germany Rail Composites Information
- Table 8.19: Intermountain Design Rail Composites Information
- Table 8.20: Joptek rail composites information
- Table 8.21: Jupiter plast rail composites information
- Table 8.22: Kemrock rail composites information
- Table 8.23: Magee plastics company rail composites information
- Table 8.24: Martin marietta materials rail composites information
- Table 8.25: McClarin plastic rail composites information
- Table 8.26: Miles fiberglass rail composites information
- Table 8.27: Rochling group rail composites information
- Table 8.28: Stillman northern rail composites information
- Table 8.29: Stratiforme rail composites information
- Table 8.30: Stratime composites systems rail composites information
- Table 8.31: Temoinsa rail composites information
- Table 8.32: Testori Americas rail composites information
- Table 8.33: Texstars rail composites information
- Table 8.34: TPI composites rail composites information
- Table 8.35: Top glass rail composites information
- Table 8.36: PCT composites information
- Table 8.37: Haysite composites information



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