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Global Aerospace Composite Materials Utilizing PCR Content Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aerospace Composite Materials Utilizing PCR Content market size is expected to reach $ 647 million by 2032, rising at a market growth of 16.5% CAGR during the forecast period (2026-2032).

Aerospace composite materials using PCR content refers to fiber reinforced polymer matrix composites where the reinforcement fiber (carbon, glass, or aramid), polymer matrix (thermoset or thermoplastic), or both, incorporate material streams originating from end-of-life consumer products or decommissioned aircraft components that have completed their intended use cycle and been recovered through mechanical, thermal, or chemical recycling processes. In 2025,global aerospace composite materials utilizing PCR content production reached approximately 3,919 ton, with an average global market price of around USD 55,000 per ton. A factory gross profit of USD 14,850 per ton with 27% gross margin. A single line full machine capacity production is around 50 ton per line per year. The upstream is centered on recycled carbon fiber recovery, recycled engineering thermoplastics, aerospace scrap processing, specialty resin formulation, and high-performance additive supply chains. Downstream demand is concentrated in aerospace OEMs, Tier-1 integrators, aircraft interior manufacturers, UAV producers, and aerospace MRO companies. Recycled PET thermoplastic composites are increasingly used in aircraft sidewall panels and overhead luggage compartment liners to reduce environmental footprint while maintaining flame-retardant compliance. US leads driven by strong Boeing and defense aerospace ecosystem and sustainable aviation initiatives.

This report studies the global Aerospace Composite Materials Utilizing PCR Content production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for Aerospace Composite Materials Utilizing PCR Content and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aerospace Composite Materials Utilizing PCR Content that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Aerospace Composite Materials Utilizing PCR Content total production and demand, 2021-2032, (Tons)
Global Aerospace Composite Materials Utilizing PCR Content total production value, 2021-2032, (USD Million)
Global Aerospace Composite Materials Utilizing PCR Content production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Aerospace Composite Materials Utilizing PCR Content consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Aerospace Composite Materials Utilizing PCR Content domestic production, consumption, key domestic manufacturers and share
Global Aerospace Composite Materials Utilizing PCR Content production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Aerospace Composite Materials Utilizing PCR Content production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Aerospace Composite Materials Utilizing PCR Content production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Aerospace Composite Materials Utilizing PCR Content market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Toray Advanced Composites (Japan), Solvay (Belgium), SGL Carbon (Germany), BASF (Germany), Safran (France), Arkema (France), Teijin (Japan), Mitsubishi Chemical (Japan), Hexcel (US), Daher (France), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aerospace Composite Materials Utilizing PCR Content market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aerospace Composite Materials Utilizing PCR Content Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Aerospace Composite Materials Utilizing PCR Content Market, Segmentation by Type:

- Recycled Carbon Fiber (rCF)
- Recycled Glass Fiber (rGF)
- Mixed Recycled Fiber

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Natural Fiber (Bio-based PCR)

Others

Global Aerospace Composite Materials Utilizing PCR Content Market, Segmentation by Matrix Type:

Thermoplastic PCR Composites

Thermoset PCR Composites

Bio Based Polymer Matrix

Hybrid Matrix Systems

Others

Global Aerospace Composite Materials Utilizing PCR Content Market, Segmentation by PCR Content Level:

Standard PCR (20-49% by weight)

High PCR (50-79% by weight)

Ultra High PCR (80-95% by weight)

Maximum PCR (95-100% by weight with additives)

Others

Global Aerospace Composite Materials Utilizing PCR Content Market, Segmentation by Application:

Commercial Aviation

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Military Aviation

Business and General Aviation

Rotorcraft

Others

Companies Profiled:

Toray Advanced Composites (Japan)

Solvay (Belgium)

SGL Carbon (Germany)

BASF (Germany)

Safran (France)

Arkema (France)

Teijin (Japan)

Mitsubishi Chemical (Japan)

Hexcel (US)

Daher (France)

Airbus (multinational)

Boeing (US)

James Cropper (UK)

RTP Company (US)

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TARMAC Aerosave (France)

CNIM (France)

Exel Composites (Finland)

Vartega (US)

Carbon Fiber Recycling (US)

Gen 2 Carbon (UK)

Fairmat (France)

Mocom (Germany)

Shanghai PRET Composites (China)

Kingfa Science & Technology (China)

Weihai Guangwei Composites (China)

Sinofibers Technology (China)

Hyosung Advanced Materials (South Korea)

Avic Composite Corporation (China)

Strata Manufacturing (UAE)

Plasan (Israel)

Key Questions Answered:
1. How big is the global Aerospace Composite Materials Utilizing PCR Content market?
2. What is the demand of the global Aerospace Composite Materials Utilizing PCR Content market?
3. What is the year over year growth of the global Aerospace Composite Materials Utilizing PCR Content market?

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4. What is the production and production value of the global Aerospace Composite Materials Utilizing PCR Content market?
5. Who are the key producers in the global Aerospace Composite Materials Utilizing PCR Content market?
6. What are the growth factors driving the market demand?

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Contents

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY MATRIX TYPE

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info@marketpublishers.com

7 MARKET ANALYSIS BY PCR CONTENT LEVEL

8 MARKET ANALYSIS BY APPLICATION

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9 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

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