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Aircraft Flame-Retardant Films Market by Aircraft Type (Commercial Aircraft, Military Aircraft, Regional Aircraft, General Aviation, and Helicopter), by Material Type (Polyvinyl Fluoride (PVF), Polyetheretherketone (PEEK), Polyimide (PI), and Others), by Blanket Type (Fiber Glass Blanket, Foam Blanket, and Others), and by Region (North America, Europe, Asia-Pacific, and Rest of The World), Trend, Forecast, Competitive Analysis, and Growth Opportunity: 2019-2024

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Abstracts

This report, from Stratview Research, studies the aircraft flame-retardant films market over the trend period from 2013 to 2018 and forecast period from 2019 to 2024. The report provides detailed insights into the market dynamics to enable informed business decision making and growth strategy formulation based on the opportunities present in the market.

The Aircraft Flame-Retardant Films Market: Highlights

The aircraft flame-retardant films market offers attractive growth opportunities in the entire ecosystem of the market in years to come. The market for aircraft flame-retardant films is forecasted to grow at an impressive rate over the next five years to reach an estimated value of US$ 331.1 million in 2024. Organic growth of aircraft production, rising aircraft fleet size, and stringent regulations regarding passenger safety are the primary drivers of flame-retardant films in the aircraft industry.

Airbus anticipated that there would be total deliveries of 37,390 aircraft worth US$ 5.8

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trillion in the global marketplace during 2018-2037. Asia-Pacific and North America would be the biggest demand generators with a combined share of 59.4% of the total aircraft deliveries during the period. An expected healthy CAGR of 4.4% in air passenger traffic during 2018-2037 will chiefly drive the demand for new aircraft during this period. This factor will create a sustainable demand for flame-retardant films in the aircraft industry in the foreseen future.

The Fire Research Program, initiated in 1993, is a long-range effort by the 1988 Aviation Safety Research Act with the goal of developing a fireproof aircraft cabin. The need for fireproof cabin is consistent with the Federal Aviation Administration's (FAA) National Aviation Research Plan to reduce aviation fatalities and injuries. As in previous studies, it was found that around 40% of fatalities in impact-survivable aircraft accidents are due to the fire and smoke. Over the years, a lot of researches were done on different materials by industry players, which led to the invention of flame-retardant films. A flame-retardant film is manufactured with a goal of reducing or eliminating aviation fatalities and injuries during the accident. These films act as a barrier for fire or flame penetrating the aircraft by displaying self-extinguishing properties. In case of a fire accident, these films slowdowns the rate of fire from further increasing. Flame-retardant films are majorly applied in the fuselage section of an aircraft where it is used with thermal acoustic insulation system, which acts as a complete package for fire protection.

Based on the aircraft type, the market is segmented into commercial aircraft, military aircraft, regional aircraft, general aviation, and helicopter. Commercial aircraft is likely to remain the most dominant and fastest-growing segment of the market during the forecast period. Increasing production rates of key programs, such as B737 and A320 family, to support rising passenger traffic; market entry of new players such as COMAC; and introduction of fuel-efficient variants of existing aircraft programs, such as B737 max, and A320neo, are the major factors driving the demand for flame-retardant films in the commercial aircraft segment.

Based on the material type, the market is segmented into polyvinyl fluoride (PVF), polyetheretherketone (PEEK), polyimide (PI), and others. PEEK film is expected to remain the dominant and fastest-growing segment of the market during the forecast period. PEEK films exhibit better properties, such as good permeation barrier, low-moisture absorption, excellent wear and abrasion resistance, and low smoke and toxic gas emission. All these properties of PEEK films have led to its wide acceptance as flame-retardant material in the aircraft industry.

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In terms of region, North America is projected to remain the largest market for aircraft flame-retardant films during the forecast period. The USA is the growth engine of the region's market and has the largest fleet of military aircraft and one of the largest fleet of commercial aircraft in the world. The presence of all major aircraft OEMs, tier players, aircraft flame-retardant film suppliers, and raw material suppliers are primarily driving the flame-retardant films market in the country.

Asia-Pacific is likely to witness the highest growth during the same period, driven by a host of factors including increasing demand for commercial aircraft to support rising passenger traffic, opening of assembly plants of Boeing and Airbus in China, and upcoming indigenous commercial and regional aircraft (COMAC C919 and Mitsubishi MRJ).

The supply chain of this market comprises raw material suppliers, flame-retardant film manufacturers, thermal acoustic insulation system manufacturers, distributors, OEMs, airlines, aircraft leasing companies, and MRO companies. The key players in the aircraft flame-retardant films market are E. I. du Pont de Nemours and Company, Solvay S.A. and Victrex Plc. Development of high-performance flame-retardant films, expansion in untapped and growing markets, and execution of mergers & acquisitions are the key strategies adopted by the major players to gain a competitive edge in the market.

Research Methodology

Our reports offer high-quality insights and are the outcome of detailed research methodology comprising extensive secondary research, rigorous primary interviews with industry stakeholders and validation and triangulation with Stratview Research's internal database and statistical tools. More than 500 authenticated secondary sources, such as company annual reports, fact book, press release, journals, investor presentation, white papers, patents, and articles, have been leveraged to gather the data. We conducted more than 10 detailed primary interviews with the market players across the value chain in all four regions and industry experts to obtain both qualitative and quantitative insights.

Report Features

This report provides market intelligence in the most comprehensive way. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision making for the existing market players as well as those willing to enter the market. The following are

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the key features of the report:

Market structure: Overview, industry life cycle analysis, supply chain analysis
Market environment analysis: Growth drivers and constraints, Porter's five forces analysis, SWOT analysis
Market trend and forecast analysis
Market segment trend and forecast
Competitive landscape and dynamics: Market share, product portfolio, product launches, etc.
Attractive market segments and associated growth opportunities
Emerging trends
Strategic growth opportunities for the existing and new players
Key success factors
The aircraft flame-retardant films market is segmented into the following categories:

Aircraft Flame-Retardant Films Market, By Aircraft Type:

Commercial Aircraft (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Regional Aircraft (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
General Aviation (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Helicopter (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Military Aircraft (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Aircraft Flame-Retardant Films Market, By Material Type

Polyvinyl Fluoride (PVF) (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Polyetheretherketone (PEEK) (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Polyimide (PI) (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Others (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Aircraft Flame-Retardant Films Market, By Blanket Type

Fiber Glass Blanket (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Foam Blanket (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Others (Regional Analysis: North America, Europe, Asia-Pacific, and RoW)
Aircraft Flame-Retardant Films Market, By Region

North America (Country Analysis: The USA, Canada, and Mexico)
Europe (Country Analysis: Germany, France, the UK, and Rest of Europe)

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Asia-Pacific (Country Analysis: China, Japan, India, and Rest of Asia-Pacific)
Rest of the World (Sub-Region Analysis: Latin America, the Middle East, and Others)
Report Customization Options

With this detailed report, Stratview Research offers one of the following free customization options to our respectable clients:

Competitive Assessment

Competitive Benchmarking of key players (up to three players)
SWOT analysis of key players (up to three players)
Regional Segmentation

Current market size (2018) of flame-retardant films for any North American country by aircraft type

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