

Composite Surface Film Market By Film Structure (Flat Films, Rolls) , By End-Use Industry (Automotive, Aerospace, Consumer Electronics, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033

<https://marketpublishers.com/r/C2242CB1C54AEN.html>

Date: September 2024

Pages: 320

Price: US\$ 2,655.00 (Single User License)

ID: C2242CB1C54AEN

Abstracts

Composite Surface Film Market

The composite surface film market was valued at \$252.0 million in 2023 and is projected to reach \$476.6 million by 2033, growing at a CAGR of 6.6% from 2024 to 2033.

A composite surface film is a material engineered by the combination of two or more components with distinguished physical and chemical properties. The aim of designing a composite film is to create a material with superior characteristics as compared to the individual components. The common materials deployed in the making of composite surface film are ceramics, metals, and polymers, along with reinforcements such as fibers or nanomaterials. The key properties of these films include chemical resistance; high tensile strength; thermal stability; enhanced electrical conductivity; and barrier properties against gases, vapors, & liquids.

Increase in demand for lightweight materials across several industries such as aerospace, defense, and automotive is a key driver of the composite surface film market. In addition, rise in the applicability of the film in packaging, electronics, healthcare, and construction sectors propels the development of the market. Furthermore, upsurge in investments in R&D for the development of composites with new compositions is projected to augment the market growth significantly. A notable trend gaining prominence in the market is the development of sustainable and

recyclable composite surface films. The use of bio-based resins and eco-friendly raw materials, along with ingenious hybridization and processing techniques is acquiring traction for the development of sustainable composites.

However, challenges associated with achieving scalability and consistency in the production of composite surface films hamper the development of the market significantly. Moreover, the inadequate performance of some composite film types in extreme weather conditions restrains the market growth. On the contrary, the adoption of bio-based composite films is anticipated to witness a notable upsurge in the oil & gas industry owing to increase in efforts to reduce carbon emissions. This surge in adoption is projected to present lucrative opportunities for the composite surface film market. According to the International Energy Agency, the oil & gas industry accounted for around 15% of global energy-related emissions in 2023, which is approximately equal to 5.1 billion Tons of greenhouse gas emissions. This upsurge is expected to push the adoption of bio-based films in the industry and encourage stakeholders to reduce their carbon impact, thereby presenting novel avenues for the market.

Segment Review

The composite surface film market is segmented into film structure, end-use industry, and region. On the basis of film structure, the market is bifurcated into flat films and rolls. Depending on end-use industry, it is classified into automotive, aerospace, consumer electronics, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of film structure, the flat films segment held a high share of the market in 2023.

Depending on end-use industry, the automotive segment acquired a high stake in the market in 2023.

Region wise, Asia-Pacific was the highest revenue generator in 2023.

Competition Analysis

The leading players operating in the global composite surface film market include 3M Company, Hexcel Corporation, Solvay S.A., Toray Advanced Composites, Huntsman

International LLC, SABIC, BASF SE, DuPont, RENEGADE MATERIALS CORPORATION, and ACP COMPOSITES, INC. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Analysis of raw material in a product (by %)

Manufacturing Capacity

Upcoming/New Entrant by Regions

Go To Market Strategy

Additional company profiles with specific to client's interest

Brands Share Analysis

Historic market data

SWOT Analysis

Key Market Segments

By Film Structure

Flat Films

Rolls

By End-Use Industry

Automotive

Aerospace

Consumer Electronics

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

3M company

Hexcel Corporation

Solvay S.A.

Toray Advanced Composites

Huntsman International LLC

SABIC

BASF SE

DuPont

RENEGADE MATERIALS CORPORATION

ACP COMPOSITES, INC.

Contents

CHAPTER 1: INTRODUCTION

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
 - 1.4.1. Primary Research
 - 1.4.2. Secondary Research
 - 1.4.3. Analyst Tools and Models

CHAPTER 2: EXECUTIVE SUMMARY

- 2.1. CXO Perspective

CHAPTER 3: MARKET LANDSCAPE

- 3.1. Market Definition and Scope
- 3.2. Key Findings
 - 3.2.1. Top Investment Pockets
 - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
 - 3.3.1. Bargaining Power of Suppliers
 - 3.3.2. Threat of New Entrants
 - 3.3.3. Threat of Substitutes
 - 3.3.4. Competitive Rivalry
 - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
 - 3.4.1. Drivers
 - 3.4.2. Restraints
 - 3.4.3. Opportunities

CHAPTER 4: COMPOSITE SURFACE FILM MARKET, BY FILM STRUCTURE

- 4.1. Market Overview
 - 4.1.1 Market Size and Forecast, By Film Structure
- 4.2. Flat Films
 - 4.2.1. Key Market Trends, Growth Factors and Opportunities

- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.3. Rolls
 - 4.3.1. Key Market Trends, Growth Factors and Opportunities
 - 4.3.2. Market Size and Forecast, By Region
 - 4.3.3. Market Share Analysis, By Country

CHAPTER 5: COMPOSITE SURFACE FILM MARKET, BY END-USE INDUSTRY

- 5.1. Market Overview
 - 5.1.1 Market Size and Forecast, By End-use Industry
- 5.2. Automotive
 - 5.2.1. Key Market Trends, Growth Factors and Opportunities
 - 5.2.2. Market Size and Forecast, By Region
 - 5.2.3. Market Share Analysis, By Country
- 5.3. Aerospace
 - 5.3.1. Key Market Trends, Growth Factors and Opportunities
 - 5.3.2. Market Size and Forecast, By Region
 - 5.3.3. Market Share Analysis, By Country
- 5.4. Consumer Electronics
 - 5.4.1. Key Market Trends, Growth Factors and Opportunities
 - 5.4.2. Market Size and Forecast, By Region
 - 5.4.3. Market Share Analysis, By Country
- 5.5. Others
 - 5.5.1. Key Market Trends, Growth Factors and Opportunities
 - 5.5.2. Market Size and Forecast, By Region
 - 5.5.3. Market Share Analysis, By Country

CHAPTER 6: COMPOSITE SURFACE FILM MARKET, BY REGION

- 6.1. Market Overview
 - 6.1.1 Market Size and Forecast, By Region
- 6.2. North America
 - 6.2.1. Key Market Trends and Opportunities
 - 6.2.2. Market Size and Forecast, By Film Structure
 - 6.2.3. Market Size and Forecast, By End-use Industry
 - 6.2.4. Market Size and Forecast, By Country
 - 6.2.5. U.S. Composite Surface Film Market
 - 6.2.5.1. Market Size and Forecast, By Film Structure

- 6.2.5.2. Market Size and Forecast, By End-use Industry
- 6.2.6. Canada Composite Surface Film Market
 - 6.2.6.1. Market Size and Forecast, By Film Structure
 - 6.2.6.2. Market Size and Forecast, By End-use Industry
- 6.2.7. Mexico Composite Surface Film Market
 - 6.2.7.1. Market Size and Forecast, By Film Structure
 - 6.2.7.2. Market Size and Forecast, By End-use Industry
- 6.3. Europe
 - 6.3.1. Key Market Trends and Opportunities
 - 6.3.2. Market Size and Forecast, By Film Structure
 - 6.3.3. Market Size and Forecast, By End-use Industry
 - 6.3.4. Market Size and Forecast, By Country
 - 6.3.5. France Composite Surface Film Market
 - 6.3.5.1. Market Size and Forecast, By Film Structure
 - 6.3.5.2. Market Size and Forecast, By End-use Industry
 - 6.3.6. Germany Composite Surface Film Market
 - 6.3.6.1. Market Size and Forecast, By Film Structure
 - 6.3.6.2. Market Size and Forecast, By End-use Industry
 - 6.3.7. Italy Composite Surface Film Market
 - 6.3.7.1. Market Size and Forecast, By Film Structure
 - 6.3.7.2. Market Size and Forecast, By End-use Industry
 - 6.3.8. Spain Composite Surface Film Market
 - 6.3.8.1. Market Size and Forecast, By Film Structure
 - 6.3.8.2. Market Size and Forecast, By End-use Industry
 - 6.3.9. UK Composite Surface Film Market
 - 6.3.9.1. Market Size and Forecast, By Film Structure
 - 6.3.9.2. Market Size and Forecast, By End-use Industry
 - 6.3.10. Rest Of Europe Composite Surface Film Market
 - 6.3.10.1. Market Size and Forecast, By Film Structure
 - 6.3.10.2. Market Size and Forecast, By End-use Industry
- 6.4. Asia-Pacific
 - 6.4.1. Key Market Trends and Opportunities
 - 6.4.2. Market Size and Forecast, By Film Structure
 - 6.4.3. Market Size and Forecast, By End-use Industry
 - 6.4.4. Market Size and Forecast, By Country
 - 6.4.5. China Composite Surface Film Market
 - 6.4.5.1. Market Size and Forecast, By Film Structure
 - 6.4.5.2. Market Size and Forecast, By End-use Industry
 - 6.4.6. Japan Composite Surface Film Market

- 6.4.6.1. Market Size and Forecast, By Film Structure
- 6.4.6.2. Market Size and Forecast, By End-use Industry
- 6.4.7. India Composite Surface Film Market
 - 6.4.7.1. Market Size and Forecast, By Film Structure
 - 6.4.7.2. Market Size and Forecast, By End-use Industry
- 6.4.8. South Korea Composite Surface Film Market
 - 6.4.8.1. Market Size and Forecast, By Film Structure
 - 6.4.8.2. Market Size and Forecast, By End-use Industry
- 6.4.9. Australia Composite Surface Film Market
 - 6.4.9.1. Market Size and Forecast, By Film Structure
 - 6.4.9.2. Market Size and Forecast, By End-use Industry
- 6.4.10. Rest of Asia-Pacific Composite Surface Film Market
 - 6.4.10.1. Market Size and Forecast, By Film Structure
 - 6.4.10.2. Market Size and Forecast, By End-use Industry
- 6.5. LAMEA
 - 6.5.1. Key Market Trends and Opportunities
 - 6.5.2. Market Size and Forecast, By Film Structure
 - 6.5.3. Market Size and Forecast, By End-use Industry
 - 6.5.4. Market Size and Forecast, By Country
 - 6.5.5. Brazil Composite Surface Film Market
 - 6.5.5.1. Market Size and Forecast, By Film Structure
 - 6.5.5.2. Market Size and Forecast, By End-use Industry
 - 6.5.6. South Africa Composite Surface Film Market
 - 6.5.6.1. Market Size and Forecast, By Film Structure
 - 6.5.6.2. Market Size and Forecast, By End-use Industry
 - 6.5.7. Saudi Arabia Composite Surface Film Market
 - 6.5.7.1. Market Size and Forecast, By Film Structure
 - 6.5.7.2. Market Size and Forecast, By End-use Industry
 - 6.5.8. Rest of LAMEA Composite Surface Film Market
 - 6.5.8.1. Market Size and Forecast, By Film Structure
 - 6.5.8.2. Market Size and Forecast, By End-use Industry

CHAPTER 7: COMPETITIVE LANDSCAPE

- 7.1. Introduction
- 7.2. Top Winning Strategies
- 7.3. Product Mapping Of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap

7.6. Top Player Positioning, 2023

CHAPTER 8: COMPANY PROFILES

8.1. 3M Company

- 8.1.1. Company Overview
- 8.1.2. Key Executives
- 8.1.3. Company Snapshot
- 8.1.4. Operating Business Segments
- 8.1.5. Product Portfolio
- 8.1.6. Business Performance
- 8.1.7. Key Strategic Moves and Developments

8.2. Hexcel Corporation

- 8.2.1. Company Overview
- 8.2.2. Key Executives
- 8.2.3. Company Snapshot
- 8.2.4. Operating Business Segments
- 8.2.5. Product Portfolio
- 8.2.6. Business Performance
- 8.2.7. Key Strategic Moves and Developments

8.3. Solvay S.A.

- 8.3.1. Company Overview
- 8.3.2. Key Executives
- 8.3.3. Company Snapshot
- 8.3.4. Operating Business Segments
- 8.3.5. Product Portfolio
- 8.3.6. Business Performance
- 8.3.7. Key Strategic Moves and Developments

8.4. Toray Advanced Composites

- 8.4.1. Company Overview
- 8.4.2. Key Executives
- 8.4.3. Company Snapshot
- 8.4.4. Operating Business Segments
- 8.4.5. Product Portfolio
- 8.4.6. Business Performance
- 8.4.7. Key Strategic Moves and Developments

8.5. Huntsman International LLC

- 8.5.1. Company Overview
- 8.5.2. Key Executives

- 8.5.3. Company Snapshot
- 8.5.4. Operating Business Segments
- 8.5.5. Product Portfolio
- 8.5.6. Business Performance
- 8.5.7. Key Strategic Moves and Developments

8.6. SABIC

- 8.6.1. Company Overview
- 8.6.2. Key Executives
- 8.6.3. Company Snapshot
- 8.6.4. Operating Business Segments
- 8.6.5. Product Portfolio
- 8.6.6. Business Performance
- 8.6.7. Key Strategic Moves and Developments

8.7. BASF SE

- 8.7.1. Company Overview
- 8.7.2. Key Executives
- 8.7.3. Company Snapshot
- 8.7.4. Operating Business Segments
- 8.7.5. Product Portfolio
- 8.7.6. Business Performance
- 8.7.7. Key Strategic Moves and Developments

8.8. DuPont

- 8.8.1. Company Overview
- 8.8.2. Key Executives
- 8.8.3. Company Snapshot
- 8.8.4. Operating Business Segments
- 8.8.5. Product Portfolio
- 8.8.6. Business Performance
- 8.8.7. Key Strategic Moves and Developments

8.9. RENEGADE MATERIALS CORPORATION

- 8.9.1. Company Overview
- 8.9.2. Key Executives
- 8.9.3. Company Snapshot
- 8.9.4. Operating Business Segments
- 8.9.5. Product Portfolio
- 8.9.6. Business Performance
- 8.9.7. Key Strategic Moves and Developments

8.10. ACP COMPOSITES, INC.

- 8.10.1. Company Overview

- 8.10.2. Key Executives
- 8.10.3. Company Snapshot
- 8.10.4. Operating Business Segments
- 8.10.5. Product Portfolio
- 8.10.6. Business Performance
- 8.10.7. Key Strategic Moves and Developments

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