

Anti-static Film Market Report and Forecast 2025-2034

Market Report | 2025-07-28 | 153 pages | EMR Inc.

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Report description:

The global anti-static film market is expected to grow at a CAGR of 4.70% during the period 2025-2034. The market is likely to be driven by applications of anti-static film in industrial processes, including storage and shipping of electronic and industrial metallic parts and machinery. North America, Europe and Asia are expected to be key markets.

Global Market Likely to be Driven by Applications in Industrial Processes

Static electricity is a key risk in industrial processes and applications. As polymeric materials are not conductive, they gather static electricity that results from friction contact between materials. This could lead to films sticking to each other, to tools, machines, or other surfaces, picking up dust, and sudden discharge of energy as sparks, causing explosions and fires. The introduction of anti-static and conductive films significantly changed industrial processes and application by reducing risk factors associated with the use of non-conductive and static films.

Anti-static and conductive films are terms that indicate a film with the capability to decrease or prohibit a static-electrical charge and its effects that may occur with the use of polymeric materials due to frictional contact between materials. On the basis of the needs of industrial application and processes, there are three different types of films available that act as antistatic material layer - Anti-static films, Conductive Films, and Static Dissipative Films. Each film's functioning reflects the reduction of charges that may take place due to frictional contact, however, each differs from the other according to the charge displaced when the films are applied in the industrial process for use.

Anti-static films are polymers or plastic that offer a surface resistivity of 10^{10} to 10^{12} ohm/sq. These films offer a decay of static charge, from hundredths of a second to several seconds, avoiding accumulations that could possibly cause discharge or initiation of charges to other close electrical events that could result in disastrous situations.

Conductive films are polymers or plastic offering a surface resistivity of 10^1 to 10^6 ohm/sq. Decay rates in conductive films are assessed in nanoseconds and are instant enough to provide a ground pathway and discharge off even the strongest of electrical

charges.

Static Dissipative films are polymers or plastic delivering a surface resistivity of 106 to 1012 ohm/sq. These films permit dissipation or decay of electrical charges at a rate much faster than anti-static materials, generally within milliseconds. The assessed resistance is uniform and generally strong.

Companies Offering Solutions that Provide Efficiency and Product Protection, and Applications of Anti-static Films Expected to Drive Market Growth

The global anti-static film market is expected to be driven by solutions offering efficiency and superior product protection. TORAYFAN (by Toray) is bi-axially oriented PP film and the lightest among plastic films with specific gravity 0.91. TORAYFAN anti-static grades (industrial) are anti-static OPP films with excellent transparency, toughness, and easy release properties. It is a strong anti-static film with additives that can be in-line corona treated on both sides. With good processability, it may be used for labels, adhesive tape, etc.

Safepack VCI anti-static film offer solutions impregnated with high-tech VCIs devised to prevent metal parts from corroding by protecting from oxidation and keeping the parts dry. The film dispels any static that may enter the packaging before it has a chance to damage the content within it, making it appropriate for shipping and storage.

Greenpro offer industries and businesses in India and beyond anti-static and conductive films.

Applications of anti-static films include covering up ATEX surfaces, electronics manufacturing and packaging, medical trays and packaging, and other generalized applications.

Benefits of Anti-static Films Likely to Boost Market Growth

Benefits of anti-static films are likely to stimulate the global anti-static film market. Benefits include:

- A broad range of colours to choose from according to the product requirement.
- Protection from dust accumulation
- Reduction of cost (behind cleaning of the product covered in dust)
- Protection of product from water exposure
- Anti-static films do not stick to the product and are easy to remove.
- Anti-static films are suited to long journey transportation where risk factors of charge building are higher
- Superior product protection from scratches.

Market Segmentation

Global Anti-static Film Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

By material, the market is segmented into

- Polyethylene (PE)
- Polyethylene Terephthalate (PET)
- Polyvinyl Chloride (PVC)

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By application, the market is classified into

- Bags and Pouches
- Liners
- Wraps
- Tapes
- Clamshells
- Others

By end use, the market is divided into

- Electronics and Semiconductor
- Manufacturing
- Healthcare and Life Sciences
- Automotive
- Others

By region, the market is segmented into

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Key Industry Players in the Market

The report presents a detailed analysis of the following key players in the global anti-static film market, looking into their capacity, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- Achilles Corporation
- Toyobo Co., Limited
- Mitsubishi Chemical Holdings Corporation
- Klockner Pentaplast Group
- Wiman Corporation
- Nan Ya Plastics Corporation
- Others

The EMR report gives an in-depth insight into the industry by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

Table of Contents:

- 1 Executive Summary
- 1.1 Market Size 2024-2025
- 1.2 Market Growth 2025(F)-2034(F)

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1.3 Key Demand Drivers
1.4 Key Players and Competitive Structure
1.5 Industry Best Practices
1.6 Recent Trends and Developments
1.7 Industry Outlook

2 Market Overview and Stakeholder Insights
2.1 Market Trends
2.2 Key Verticals
2.3 Key Regions
2.4 Supplier Power
2.5 Buyer Power
2.6 Key Market Opportunities and Risks
2.7 Key Initiatives by Stakeholders

3 Economic Summary
3.1 GDP Outlook
3.2 GDP Per Capita Growth
3.3 Inflation Trends
3.4 Democracy Index
3.5 Gross Public Debt Ratios
3.6 Balance of Payment (BoP) Position
3.7 Population Outlook
3.8 Urbanisation Trends

4 Country Risk Profiles
4.1 Country Risk
4.2 Business Climate

5 Global Anti-static Film Market Analysis
5.1 Key Industry Highlights
5.2 Global Anti-static Film Historical Market (2018-2024)
5.3 Global Anti-static Film Market Forecast (2025-2034)
5.4 Global Anti-static Film Market by Material
5.4.1 Polyethylene (PE)
5.4.1.1 Historical Trend (2018-2024)
5.4.1.2 Forecast Trend (2025-2034)
5.4.2 Polyethylene Terephthalate (PET)
5.4.2.1 Historical Trend (2018-2024)
5.4.2.2 Forecast Trend (2025-2034)
5.4.3 Polyvinyl Chloride (PVC)
5.4.3.1 Historical Trend (2018-2024)
5.4.3.2 Forecast Trend (2025-2034)
5.5 Global Anti-static Film Market by Application
5.5.1 Bags and Pouches
5.5.1.1 Historical Trend (2018-2024)
5.5.1.2 Forecast Trend (2025-2034)
5.5.2 Liners
5.5.2.1 Historical Trend (2018-2024)
5.5.2.2 Forecast Trend (2025-2034)
5.5.3 Wraps

- 5.5.3.1 Historical Trend (2018-2024)
- 5.5.3.2 Forecast Trend (2025-2034)
- 5.5.4 Tapes
 - 5.5.4.1 Historical Trend (2018-2024)
 - 5.5.4.2 Forecast Trend (2025-2034)
- 5.5.5 Clamshells
 - 5.5.5.1 Historical Trend (2018-2024)
 - 5.5.5.2 Forecast Trend (2025-2034)
- 5.5.6 Others
- 5.6 Global Anti-static Film Market by End Use
 - 5.6.1 Electronics and Semiconductor
 - 5.6.1.1 Historical Trend (2018-2024)
 - 5.6.1.2 Forecast Trend (2025-2034)
 - 5.6.2 Manufacturing
 - 5.6.2.1 Historical Trend (2018-2024)
 - 5.6.2.2 Forecast Trend (2025-2034)
 - 5.6.3 Healthcare and Life Sciences
 - 5.6.3.1 Historical Trend (2018-2024)
 - 5.6.3.2 Forecast Trend (2025-2034)
 - 5.6.4 Automotive
 - 5.6.4.1 Historical Trend (2018-2024)
 - 5.6.4.2 Forecast Trend (2025-2034)
 - 5.6.5 Others
- 5.7 Global Anti-static Film Market by Region
 - 5.7.1 North America
 - 5.7.1.1 Historical Trend (2018-2024)
 - 5.7.1.2 Forecast Trend (2025-2034)
 - 5.7.2 Europe
 - 5.7.2.1 Historical Trend (2018-2024)
 - 5.7.2.2 Forecast Trend (2025-2034)
 - 5.7.3 Asia Pacific
 - 5.7.3.1 Historical Trend (2018-2024)
 - 5.7.3.2 Forecast Trend (2025-2034)
 - 5.7.4 Latin America
 - 5.7.4.1 Historical Trend (2018-2024)
 - 5.7.4.2 Forecast Trend (2025-2034)
 - 5.7.5 Middle East and Africa
 - 5.7.5.1 Historical Trend (2018-2024)
 - 5.7.5.2 Forecast Trend (2025-2034)

- 6 North America Anti-static Film Market Analysis
- 6.1 United States of America
 - 6.1.1 Historical Trend (2018-2024)
 - 6.1.2 Forecast Trend (2025-2034)
- 6.2 Canada
 - 6.2.1 Historical Trend (2018-2024)
 - 6.2.2 Forecast Trend (2025-2034)
- 7 Europe Anti-static Film Market Analysis

7.1 United Kingdom

7.1.1 Historical Trend (2018-2024)

7.1.2 Forecast Trend (2025-2034)

7.2 Germany

7.2.1 Historical Trend (2018-2024)

7.2.2 Forecast Trend (2025-2034)

7.3 France

7.3.1 Historical Trend (2018-2024)

7.3.2 Forecast Trend (2025-2034)

7.4 Italy

7.4.1 Historical Trend (2018-2024)

7.4.2 Forecast Trend (2025-2034)

7.5 Others

8 Asia Pacific Anti-static Film Market Analysis

8.1 China

8.1.1 Historical Trend (2018-2024)

8.1.2 Forecast Trend (2025-2034)

8.2 Japan

8.2.1 Historical Trend (2018-2024)

8.2.2 Forecast Trend (2025-2034)

8.3 India

8.3.1 Historical Trend (2018-2024)

8.3.2 Forecast Trend (2025-2034)

8.4 ASEAN

8.4.1 Historical Trend (2018-2024)

8.4.2 Forecast Trend (2025-2034)

8.5 Australia

8.5.1 Historical Trend (2018-2024)

8.5.2 Forecast Trend (2025-2034)

8.6 Others

9 Latin America Anti-static Film Market Analysis

9.1 Brazil

9.1.1 Historical Trend (2018-2024)

9.1.2 Forecast Trend (2025-2034)

9.2 Argentina

9.2.1 Historical Trend (2018-2024)

9.2.2 Forecast Trend (2025-2034)

9.3 Mexico

9.3.1 Historical Trend (2018-2024)

9.3.2 Forecast Trend (2025-2034)

9.4 Others

10 Middle East and Africa Anti-static Film Market Analysis

10.1 Saudi Arabia

10.1.1 Historical Trend (2018-2024)

10.1.2 Forecast Trend (2025-2034)

10.2 United Arab Emirates

10.2.1 Historical Trend (2018-2024)

- 10.2.2 Forecast Trend (2025-2034)
- 10.3 Nigeria
 - 10.3.1 Historical Trend (2018-2024)
 - 10.3.2 Forecast Trend (2025-2034)
- 10.4 South Africa
 - 10.4.1 Historical Trend (2018-2024)
 - 10.4.2 Forecast Trend (2025-2034)
- 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators for Demand
 - 11.4 Key Indicators for Price
- 12 Value Chain Analysis
- 13 Price Analysis
- 14 Competitive Landscape
 - 14.1 Supplier Selection
 - 14.2 Key Global Players
 - 14.3 Key Regional Players
 - 14.4 Key Player Strategies
 - 14.5 Company Profiles
 - 14.5.1 Achilles Corporation
 - 14.5.1.1 Company Overview
 - 14.5.1.2 Product Portfolio
 - 14.5.1.3 Demographic Reach and Achievements
 - 14.5.1.4 Certifications
 - 14.5.2 Toyobo Co., Limited
 - 14.5.2.1 Company Overview
 - 14.5.2.2 Product Portfolio
 - 14.5.2.3 Demographic Reach and Achievements
 - 14.5.2.4 Certifications
 - 14.5.3 Mitsubishi Chemical Holdings Corporation
 - 14.5.3.1 Company Overview
 - 14.5.3.2 Product Portfolio
 - 14.5.3.3 Demographic Reach and Achievements
 - 14.5.3.4 Certifications
 - 14.5.4 Klockner Pentaplast Group
 - 14.5.4.1 Company Overview

14.5.4.2 Product Portfolio

14.5.4.3 Demographic Reach and Achievements

14.5.4.4 Certifications

14.5.5 Wiman Corporation

14.5.5.1 Company Overview

14.5.5.2 Product Portfolio

14.5.5.3 Demographic Reach and Achievements

14.5.5.4 Certifications

14.5.6 Nan Ya Plastics Corporation

14.5.6.1 Company Overview

14.5.6.2 Product Portfolio

14.5.6.3 Demographic Reach and Achievements

14.5.6.4 Certifications

14.5.7 Others

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