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 1010 to 1012 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 101 to 106 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)

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.

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