

Anti-Scratch Film Market Forecasts to 2030 – Global Analysis By Material Type (Polyethylene (PE), Polypropylene (PP), Polycarbonate (PC), Polyurethane (PU), Acrylic (PMMA) and Other Material Types), Thickness, Technology, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Anti-Scratch Film Market is accounted for \$25.42 billion in 2024 and is expected to reach \$33.31 billion by 2030 growing at a CAGR of 4.6% during the forecast period. Anti-scratch film is a protective coating or layer designed to safeguard surfaces from scratches, abrasions, and minor impacts. Anti-scratch films are transparent, ensuring visibility and aesthetic appeal while providing a tough barrier against wear and tear. They often feature self-healing properties and UV resistance, making them ideal for enhancing durability and maintaining the pristine condition of various products.

According to OICA, export of polyethylene increased by 12% between year 2015 and 2018 worldwide.

Market Dynamics:

Driver:

Rising demand for consumer electronics

As devices like smart phones, tablets, laptops, and wearable gadgets become integral to daily life, protecting their surfaces from scratches and wear is increasingly essential.

Anti-scratch films offer a cost-effective solution to preserve the aesthetic and functional quality of these devices, enhancing user experience and device longevity. Additionally, frequent innovation and premium designs in consumer electronics elevate the need for durable protective solutions. This trend boosts demand for anti-scratch films, as manufacturers and consumers prioritize maintaining product quality and durability in a competitive electronics market.

Restraint:

Compatibility issues

Compatibility issues in anti-scratch films arise when the films fail to adhere effectively to certain surfaces or materials, such as irregular textures, low-energy plastics, or specific coatings. These challenges often lead to peeling, bubbling, or reduced protection, deterring consumers from adopting these solutions. Such issues are more prevalent in specialized applications like automotive interiors or medical devices, where precise fit and performance are critical. These limitations reduce customer satisfaction and market penetration, thereby hindering the overall growth of the anti-scratch film market.

Opportunity:

Advancements in film technology

Innovations like self-healing properties allow the films to recover from minor scratches, maintaining surface clarity and durability. Improved UV resistance and weatherproofing enhance longevity, particularly in outdoor and automotive applications. Additionally, advancements in film thickness, flexibility, and adhesive technology ensure better compatibility with a wider range of surfaces, making films easier to apply and more effective. These technological improvements cater to growing consumer demand for long-lasting protection, fueling market expansion across industries such as electronics, automotive, and packaging.

Threat:

Availability of substitutes

Products like tempered glass protectors, scratch-resistant coatings, and advanced materials such as Corning Gorilla Glass provide comparable or superior durability and aesthetic benefits. These substitutes often feature cost-efficiency, easier application or

long-term performance, making them attractive options. Additionally, industries like consumer electronics and automotive may prefer integrated scratch-resistant materials over film applications. As these alternatives gain popularity, they limit the market share and adoption.

Covid-19 Impact

The covid-19 pandemic impacted the anti-scratch film market with mixed effects. Supply chain disruptions and reduced industrial production initially hindered market growth. The automotive and construction sectors, major consumers of these films, experienced delays and decreased demand. Additionally, increased focus on hygiene and surface protection post-pandemic drove demand for films in healthcare and packaging applications, fostering market recovery.

The scratch resistance segment is expected to be the largest during the forecast period

The scratch resistance segment is predicted to secure the largest market share throughout the forecast period. Anti-scratch films play a vital role in scratch resistance applications by forming a protective layer that safeguards surfaces against abrasions, scuffs, and minor impacts. Made from durable materials like polyurethane or polyester, they enhance surface durability while preserving clarity and appearance. Their self-healing properties and UV resistance make them ideal for long-term protection, ensuring extended product lifespans and reduced maintenance requirements in demanding environments.

The automotive segment is expected to have the highest CAGR during the forecast period

The automotive segment is anticipated to witness the highest CAGR during the forecast period. Anti-scratch films are widely used in automotive applications to protect both interior and exterior surfaces from scratches, abrasions, and UV damage. These films are applied to touch screens, dashboards, door panels, and exterior parts such as paint and headlights, preserving the vehicle's aesthetic appeal and durability. With the rising demand for high-quality finishes and enhanced vehicle lifespan, anti-scratch films are becoming a key solution in the automotive industry.

Region with largest share:

Asia Pacific is expected to register the largest market share during the forecast period

driven by the rising demand for consumer electronics, automotive production, and expanding applications in packaging and healthcare. Key players such as 3M, Toray Industries, Lintec Corporation, and Avery Dennison are investing in advanced film technologies to cater to the region's growing needs. Increasing urbanization and industrialization, coupled with awareness of surface protection, further bolster demand. The region benefits from cost-effective manufacturing and abundant raw material availability, positioning it as a dominant market.

Region with highest CAGR:

North America is expected to witness the highest CAGR over the forecast period driven by advancements in automotive and electronics industries. Key players like Eastman Chemical Company, 3M, and Saint-Gobain Performance Plastics lead the market with innovative offerings. The region's focus on premium consumer electronics and stringent quality standards in automotive manufacturing supports market expansion. With technological innovations and increasing investments in protective films, the North American market is poised for steady growth, driven by a robust industrial and consumer base.

Key players in the market

Some of the key players profiled in the Anti-Scratch Film Market include 3M Company, Avery Dennison Corporation, Eastman Chemical Company, Saint-Gobain, Mica Corporation, Nitto Denko Corporation, The Dow Chemical Company, Intertape Polymer Group, Johnson & Johnson, Toray Industries, Arkema Group, DuPont de Nemours Inc., Lintec Corporation, Tesa SE, LG Chem, Samsung Electronics Corporation, Orafol Europe GmbH, Mitsui Chemicals Inc., Zhongtai Group and Hanwa Chemical Industry Corporation.

Key Developments:

In January 2024, Eastman Chemical Company launched the LLumar® protective wrap film, that combines the visual appeal of vehicle wraps with the durable protective qualities of paint protection films (PPF). This innovative film is designed to safeguard a vehicle's paintwork from various elements while enhancing its aesthetic appearance.

In July 2022, Avery Dennison Corporation introduced the paint protection film (PPF). This ultra-gloss, non-yellowing, self-healing polyurethane film is engineered to provide enhanced durability and aesthetic appeal, making it a leading choice for vehicle owners

and professionals seeking long-term protection.

Material Types Covered:

- Polyethylene (PE)
- Polypropylene (PP)
- Polycarbonate (PC)
- Polyurethane (PU)
- Acrylic (PMMA)
- Other Material Types

Thickness Covered:

- Below 50 Microns
- 50–100 Microns
- Above 100 Microns

Technologies Covered:

- Ultraviolet (UV) Coating
- Chemical Coating
- Plasma Coating
- Nano-coatings
- Sol-Gel Coatings
- Physical Vapour Deposition (PVD) Coating

Electroplating Coating

Other Technologies

Applications Covered:

Scratch Resistance

Anti-Fog & Anti-Glare

Anti-Reflection

Thermal Insulation

Chemical Resistance

Other Applications

End Users Covered:

Automotive

Electronics & Electrical

Packaging

Building & Construction

Healthcare

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 End User Analysis
- 3.9 Emerging Markets
- 3.10 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL ANTI-SCRATCH FILM MARKET, BY MATERIAL TYPE

- 5.1 Introduction
- 5.2 Polyethylene (PE)
- 5.3 Polypropylene (PP)
- 5.4 Polycarbonate (PC)
- 5.5 Polyurethane (PU)
- 5.6 Acrylic (PMMA)
- 5.7 Other Material Types

6 GLOBAL ANTI-SCRATCH FILM MARKET, BY THICKNESS

- 6.1 Introduction
- 6.2 Below 50 Microns
- 6.3 50–100 Microns
- 6.4 Above 100 Microns

7 GLOBAL ANTI-SCRATCH FILM MARKET, BY TECHNOLOGY

- 7.1 Introduction
- 7.2 Ultraviolet (UV) Coating
- 7.3 Chemical Coating
- 7.4 Plasma Coating
- 7.5 Nano-coatings
- 7.6 Sol-Gel Coatings
- 7.7 Physical Vapour Deposition (PVD) Coating
- 7.8 Electroplating Coating
- 7.9 Other Technologies

8 GLOBAL ANTI-SCRATCH FILM MARKET, BY APPLICATION

- 8.1 Introduction
- 8.2 Scratch Resistance
- 8.3 Anti-Fog & Anti-Glare
- 8.4 Anti-Reflection
- 8.5 Thermal Insulation
- 8.6 Chemical Resistance
- 8.7 Other Applications

9 GLOBAL ANTI-SCRATCH FILM MARKET, BY END USER

- 9.1 Introduction
- 9.2 Automotive
- 9.3 Electronics & Electrical
- 9.4 Packaging
- 9.5 Building & Construction
- 9.6 Healthcare
- 9.7 Other End Users

10 GLOBAL ANTI-SCRATCH FILM MARKET, BY GEOGRAPHY

- 10.1 Introduction
- 10.2 North America
 - 10.2.1 US
 - 10.2.2 Canada
 - 10.2.3 Mexico
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.2 UK
 - 10.3.3 Italy
 - 10.3.4 France
 - 10.3.5 Spain
 - 10.3.6 Rest of Europe
- 10.4 Asia Pacific
 - 10.4.1 Japan
 - 10.4.2 China
 - 10.4.3 India
 - 10.4.4 Australia
 - 10.4.5 New Zealand
 - 10.4.6 South Korea
 - 10.4.7 Rest of Asia Pacific
- 10.5 South America
 - 10.5.1 Argentina
 - 10.5.2 Brazil
 - 10.5.3 Chile
 - 10.5.4 Rest of South America
- 10.6 Middle East & Africa

- 10.6.1 Saudi Arabia
- 10.6.2 UAE
- 10.6.3 Qatar
- 10.6.4 South Africa
- 10.6.5 Rest of Middle East & Africa

11 KEY DEVELOPMENTS

- 11.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 11.2 Acquisitions & Mergers
- 11.3 New Product Launch
- 11.4 Expansions
- 11.5 Other Key Strategies

12 COMPANY PROFILING

- 12.1 3M Company
- 12.2 Avery Dennison Corporation
- 12.3 Eastman Chemical Company
- 12.4 Saint-Gobain
- 12.5 Mica Corporation
- 12.6 Nitto Denko Corporation
- 12.7 The Dow Chemical Company
- 12.8 Intertape Polymer Group
- 12.9 Johnson & Johnson
- 12.10 Toray Industries
- 12.11 Arkema Group
- 12.12 DuPont de Nemours Inc.
- 12.13 Lintec Corporation
- 12.14 Tesa SE
- 12.15 LG Chem
- 12.16 Samsung Electronics Corporation
- 12.17 Orafol Europe GmbH
- 12.18 Mitsui Chemicals Inc.
- 12.19 Zhongtai Group
- 12.20 Hanwa Chemical Industry Corporation

List Of Tables

LIST OF TABLES

Table 1 Global Anti-Scratch Film Market Outlook, By Region (2022-2030) (\$MN)

Table 2 Global Anti-Scratch Film Market Outlook, By Material Type (2022-2030) (\$MN)

Table 3 Global Anti-Scratch Film Market Outlook, By Polyethylene (PE) (2022-2030) (\$MN)

Table 4 Global Anti-Scratch Film Market Outlook, By Polypropylene (PP) (2022-2030) (\$MN)

Table 5 Global Anti-Scratch Film Market Outlook, By Polycarbonate (PC) (2022-2030) (\$MN)

Table 6 Global Anti-Scratch Film Market Outlook, By Polyurethane (PU) (2022-2030) (\$MN)

Table 7 Global Anti-Scratch Film Market Outlook, By Acrylic (PMMA) (2022-2030) (\$MN)

Table 8 Global Anti-Scratch Film Market Outlook, By Other Material Types (2022-2030) (\$MN)

Table 9 Global Anti-Scratch Film Market Outlook, By Thickness (2022-2030) (\$MN)

Table 10 Global Anti-Scratch Film Market Outlook, By Below 50 Microns (2022-2030) (\$MN)

Table 11 Global Anti-Scratch Film Market Outlook, By 50–100 Microns (2022-2030) (\$MN)

Table 12 Global Anti-Scratch Film Market Outlook, By Above 100 Microns (2022-2030) (\$MN)

Table 13 Global Anti-Scratch Film Market Outlook, By Technology (2022-2030) (\$MN)

Table 14 Global Anti-Scratch Film Market Outlook, By Ultraviolet (UV) Coating (2022-2030) (\$MN)

Table 15 Global Anti-Scratch Film Market Outlook, By Chemical Coating (2022-2030) (\$MN)

Table 16 Global Anti-Scratch Film Market Outlook, By Plasma Coating (2022-2030) (\$MN)

Table 17 Global Anti-Scratch Film Market Outlook, By Nano-coatings (2022-2030) (\$MN)

Table 18 Global Anti-Scratch Film Market Outlook, By Sol-Gel Coatings (2022-2030) (\$MN)

Table 19 Global Anti-Scratch Film Market Outlook, By Physical Vapour Deposition (PVD) Coating (2022-2030) (\$MN)

Table 20 Global Anti-Scratch Film Market Outlook, By Electroplating Coating

(2022-2030) (\$MN)

Table 21 Global Anti-Scratch Film Market Outlook, By Other Technologies (2022-2030) (\$MN)

Table 22 Global Anti-Scratch Film Market Outlook, By Application (2022-2030) (\$MN)

Table 23 Global Anti-Scratch Film Market Outlook, By Scratch Resistance (2022-2030) (\$MN)

Table 24 Global Anti-Scratch Film Market Outlook, By Anti-Fog & Anti-Glare (2022-2030) (\$MN)

Table 25 Global Anti-Scratch Film Market Outlook, By Anti-Reflection (2022-2030) (\$MN)

Table 26 Global Anti-Scratch Film Market Outlook, By Thermal Insulation (2022-2030) (\$MN)

Table 27 Global Anti-Scratch Film Market Outlook, By Chemical Resistance (2022-2030) (\$MN)

Table 28 Global Anti-Scratch Film Market Outlook, By Other Applications (2022-2030) (\$MN)

Table 29 Global Anti-Scratch Film Market Outlook, By End User (2022-2030) (\$MN)

Table 30 Global Anti-Scratch Film Market Outlook, By Automotive (2022-2030) (\$MN)

Table 31 Global Anti-Scratch Film Market Outlook, By Electronics & Electrical (2022-2030) (\$MN)

Table 32 Global Anti-Scratch Film Market Outlook, By Packaging (2022-2030) (\$MN)

Table 33 Global Anti-Scratch Film Market Outlook, By Building & Construction (2022-2030) (\$MN)

Table 34 Global Anti-Scratch Film Market Outlook, By Healthcare (2022-2030) (\$MN)

Table 35 Global Anti-Scratch Film Market Outlook, By Other End Users (2022-2030) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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