

Electric Vehicle Plastics Market by Type (ABS, PU, PA, PC, PVB, PP, PVC, PMMA), Application & Component (Dashboard, Seat, Trim, Bumper, Body, Battery, Engine, Lighting, Wiring), Battery Type & Material, Vehicle Type and Region - Global Forecast to 2027

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Abstracts

The electric vehicle plastics market is expected to grow from USD 3.7 billion in 2022 and is poised to reach USD 12.6 billion in 2027, at a CAGR of 27.9% during the forecast period.

The global demand for electric vehicles has shown significant growth in recent years. According to IEA statistics, electric vehicle sales have increased from 10.3 million units in 2020 to 16.2 million units in 2021, with an increase of 57.3% from the previous year. The growth can be attributed to increasing support from local governments in incentives to usher customers into buying EVs and increase the adoption rate of electric mobility. The demand for premium electric vehicles has seen growth in developed and developing countries with high disposable income, better charging infrastructure, rising customer awareness. Developed regions such as Europe, North America, and a few Asian countries such as Japan and South Korea are the key markets for premium electric vehicles. Increasing the driving range of electric vehicles is a top priority for OEMs. Lighter vehicles require less power to travel a particular distance thus increasing the driving range per charge of a vehicle. Some of the areas that will find plastics application in EVs are specifically around the battery pack and the structure, after that power electronics such as the inverter, the DC converter, and the onboard charger. Batteries today are heavy and can increase EV weight by 35% compared to an ICE. For example, battery pack of Mercedes-Benz EQC weighs in at 635 kgs. A 10% reduction in battery weight can improve driving range by 6% to 8%. So, replacing battery casing and battery separators by low density materials such as polypropylene, which is ~33%

lighter than polycarbonate, can help in overall weight reduction. Vehicle interior and exterior applications such as door handles, bumpers, dashboards, seats contribute to a major share of weight in the vehicle. These parts if made from lightweight materials such as polyurethane and polypropylene can not only significantly reduce weight of the vehicle but also provide quality aesthetic looks due to their flexibility in design and manufacturing.

Hence, it is likely the demand for light weight high performance plastics in EV powertrain, interior, and exterior applications is likely to drive the demand for plastics in electric vehicles.

BEVs are likely to drive demand for plastics due to their growing popularity

The BEV segment is estimated to showcase the fastest-growing vehicle segment for plastics during the forecast period. BEVs have showcased a faster adoption compared to other EV types and one of the reasons can be that these are clean and comparatively low cost compared to HEVs/PHEVs. With advancements in weight-reduction technologies and improved range, the demand for battery electric vehicles is expected to increase further in the coming years. This would drive the demand for lightweight plastics such as polypropylene. Polyurethanes (PU) have excellent manufacturability and are preferred material options for automotive seating solutions. Higher demand for interior comfort drives PU demand in EVs. Polypropylene (PP) has a lower density than other plastic materials; hence it has opened new opportunities to reduce vehicle weight. PP also has good recyclability, allowing it to be reused as raw material and reducing plastic waste. Thus, increased adoption of BEV vehicles amongst other EV vehicle types is likely to drive the demand for plastic components used in these vehicles.

Interior trim application to boost plastic blended fabrics for aesthetically pleasing plastic components.

OEMs introduce advanced seating solutions as customers of luxury electric vehicles and premium electric SUVs prefer superior ride quality. These seating solutions are a new growth opportunity for OEMs to reduce vehicle weight while providing a quality interior experience. For current generation customers, interior aesthetics are one of the primary factors while purchasing a vehicle. OEMs that can deliver a wide range of interiors will likely gain market share in the future. The design flexibility of plastics can be used to improve aesthetics in vehicle interiors. Therefore, due to increased demand for safety features in the market and aesthetically pleasing interiors, the demand for advanced interior trim components will likely increase during the forecast period.

Europe is the second largest market for EV plastics owing to faster-growing EV sales

According to IEA, the split between BEV and PHEV is 55/45, with 5.5 million electric vehicles on the road as of 2021 in Europe. This results from changes in EV tax incentive schemes and shift towards electric mobility to reduce CO2 emissions and prevent climate change.

Germany is a global hub for automotive design and innovation. With companies like BASF leading the charge in innovative plastic solutions, the country's demand for higher, more aesthetically pleasing interiors has risen. The country is one of the biggest markets for premium vehicles, making it a focal point for adopting lightweight, high-performance plastic. France is at the center of luxury business in the world. It is one of the top countries with high demand for luxury vehicles and SUVs. The growing demand for luxury EVs is next as top companies shift their focus to low carbon mobility. Luxury interiors and higher-quality seating will drive the demand for better-quality plastic products. In Sweden, according to IEA, the share of electric vehicles sold in 2021 was 42% of all the vehicles sold in the country, one of the highest numbers in the European region. This is indicative of the increasing customer awareness and the rising government support in the form of new schemes toward electric mobility.

In Europe, the EV sales are primarily driven by mature charging infrastructure, customer awareness and attractive government incentives. Demand for higher quality interiors to drive the plastic market in this region.

The breakup of primary respondents

By Company: Plastic Component Manufacturers – 30%, Plastic Suppliers – 60%, Others -10%

By Designation: C level executives – 20%, Others – 80%

By Region: Europe - 20%, Asia Pacific - 50%, North America - 30%

The Electric Vehicle Plastics industry is dominated by global players and comprises several regional players, including BASF SE(Germany), Lyondellbasell Industries Holdings B.V. (Netherlands), Sabic (Saudi Arabia), Dow (US) & Dupont (US). The study includes an in-depth competitive analysis of these key players in the Electric Vehicle

Plastics market with their company profiles, MnM view of the top five companies, recent developments, and key market strategies.

Research Coverage

The primary objective of the study is to define, describe, and forecast the Electric Vehicle Plastics market, by value and volume. The study segments the Electric Vehicle Plastics market By Plastic type [acrylonitrile butadiene styrene (ABS), polyamide (PA), polycarbonate (PC), polyvinyl butyral, polyurethane (PU), polypropylene (PP), polyvinyl chloride (PVC), polymethylmethacrylate (PMMA), high density polyethylene (HDPE), low density polyethylene (LDPE), polybutylene terephthalate (PBT), and others], By Application (powertrain system/under bonnet, exterior, interior, and lighting & wiring), By Component (dashboard, seats, interior trim, car upholstery, bumper, body, exterior trim, battery, auxiliary battery, engine, engine top cover, engine encapsulation, fuel tank, lighting, electric wiring, floor insulator, fender insulator, wheel arc liner and other components), Battery Plastics Market, By Material (Polyamide, Polycarbonate, Polypropylene, Polyethylene, and Other Plastic Materials), Battery Plastics Market, By Type (Drive Battery and Auxiliary Battery), Battery Plastics Market, By Vehicle Type (BEV, PHEV and FCEV), Polypropylene Market, By Component (dashboard, seats, interior trim, car upholstery, bumper, body, exterior trim, battery, auxiliary battery, engine, engine top cover, engine encapsulation, fuel tank, lighting, electric wiring, floor insulator, fender insulator, and wheel arc liner), By Vehicle Type (BEV and PHEV/HEV), By Region (Asia Pacific, North America, and Europe). It analyzes the opportunities offered by various segments of the market to the stakeholders. It tracks and analyzes competitive developments such as market ranking analysis, expansions, joint ventures, acquisitions, and other activities carried out by key industry participants.

Key Benefits of Buying the Report:

The report will help the market leaders with the information on the closest approximations of the revenue numbers for the electric vehicle market and the sub-segments. The study will also help the key players identify the highest potential region and design its product portfolio per market requirements. Detailed research on different plastic types, plastic components and their application is expected to help manufacturers to understand the potential market for these vehicle types and which technologies are predominant in the respective vehicle types. This report includes various analyses like supply chain, average selling price analysis, patent analysis, revenue shift analysis, case study analysis, and porter's analysis. This report will help stakeholders understand the competitive landscape and gain more insights to better

position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS & EXCLUSIONS

1.3 MARKET SCOPE

FIGURE 1 ELECTRIC VEHICLE PLASTICS MARKET SEGMENTATION

1.3.1 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

1.5 PACKAGE SIZE

1.6 LIMITATIONS

1.7 STAKEHOLDERS

1.8 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 ELECTRIC VEHICLE PLASTICS MARKET: RESEARCH DESIGN

FIGURE 3 RESEARCH DESIGN MODEL

2.2 SECONDARY DATA

2.2.1 KEY SECONDARY SOURCES FOR VEHICLE SALES/PRODUCTION

2.2.2 KEY SECONDARY SOURCES FOR MARKET SIZING

2.2.2.1 Key data from secondary sources

2.3 PRIMARY DATA

FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS

2.3.1 SAMPLING TECHNIQUES & DATA COLLECTION METHODS

2.3.2 PRIMARY PARTICIPANTS

2.4 MARKET SIZE ESTIMATION

2.4.1 BOTTOM-UP APPROACH

2.4.2 TOP-DOWN APPROACH

2.5 FACTOR ANALYSIS

2.6 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 5 DATA TRIANGULATION

2.7 ASSUMPTIONS & ASSOCIATED RISKS

2.8 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

3.1 REPORT SUMMARY

FIGURE 6 ELECTRIC VEHICLE PLASTICS MARKET OUTLOOK

FIGURE 7 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022 VS. 2027
(USD MILLION)

4 PREMIUM INSIGHTS

4.1 OPPORTUNITIES IN ELECTRIC VEHICLE PLASTICS MARKET

FIGURE 8 STRINGENT EMISSION NORMS, RISING DEMAND FOR ELECTRIC VEHICLES, AND LOWER MANUFACTURING COSTS TO DRIVE ELECTRIC VEHICLE PLASTICS MARKET

4.2 ELECTRIC VEHICLE PLASTICS MARKET, BY PLASTIC TYPE

FIGURE 9 POLYURETHANE TO HOLD LARGEST MARKET SHARE IN ELECTRIC VEHICLE PLASTICS MARKET

4.3 ICE PASSENGER CAR PLASTICS MARKET, BY PLASTIC TYPE

FIGURE 10 POLYURETHANE TO DOMINATE ELECTRIC VEHICLE PLASTICS MARKET DURING FORECAST PERIOD

4.4 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE

FIGURE 11 BEV SEGMENT TO ACCOUNT FOR LARGEST SHARE OF ELECTRIC VEHICLE PLASTICS MARKET BY 2027

4.5 ELECTRIC VEHICLE PLASTICS MARKET, BY COMPONENT

FIGURE 12 INTERIOR TRIM SEGMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

4.6 ICE PASSENGER CAR PLASTICS MARKET, BY COMPONENT

FIGURE 13 INTERIOR TRIM SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

4.7 ELECTRIC VEHICLE PLASTICS MARKET, BY APPLICATION

FIGURE 14 INTERIOR SEGMENT TO HOLD LARGEST SHARE DURING FORECAST PERIOD

4.8 ELECTRIC PASSENGER CAR BATTERY PLASTICS MARKET, BY VEHICLE TYPE

FIGURE 15 BEV SEGMENT TO HOLD LARGEST SHARE IN ELECTRIC PASSENGER CAR BATTERY PLASTICS MARKET

4.9 ELECTRIC PASSENGER CAR BATTERY PLASTICS MARKET, BY BATTERY TYPE

FIGURE 16 DRIVE BATTERY SEGMENT TO DOMINATE ELECTRIC PASSENGER CAR BATTERY PLASTICS MARKET

4.10 ELECTRIC PASSENGER CAR BATTERY PLASTICS MARKET, BY PLASTIC

TYPE

FIGURE 17 POLYAMIDE SEGMENT TO REGISTER HIGHEST GROWTH RATE DURING FORECAST PERIOD

4.11 ELECTRIC PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT

FIGURE 18 INTERIOR TRIM SEGMENT TO COMMAND LARGEST SHARE OF ELECTRIC VEHICLE PLASTICS MARKET DURING FORECAST PERIOD

4.12 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT

FIGURE 19 INTERIOR TRIM SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

4.13 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION

FIGURE 20 ASIA PACIFIC TO HOLD LARGEST SHARE IN ELECTRIC VEHICLE PLASTICS MARKET

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 21 ELECTRIC VEHICLE PLASTICS MARKET: MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Stringent emission standards to drive electrification as well as weight reduction

TABLE 1 EMISSION NORM SPECIFICATIONS IN KEY COUNTRIES FOR PASSENGER CARS

TABLE 2 EURO 5 VS. EURO 6 VEHICLE EMISSION STANDARDS ON NEW EUROPEAN DRIVING CYCLE

TABLE 3 ON-ROAD VEHICLE EMISSION REGULATION OUTLOOK FOR PASSENGER CARS, 2016–2021

FIGURE 22 EMISSION REGULATIONS: 2015–2025

5.2.1.2 OEM inclination toward thermally stable plastics in heat-sensitive applications

5.2.2 RESTRAINTS

5.2.2.1 Recycling of plastic materials used in electric vehicles

5.2.3 OPPORTUNITIES

5.2.3.1 Use of bioplastics in electric vehicles provides most efficient and environment-friendly lightweighting solution

5.2.3.2 Use of antimicrobial plastics/additives in electric vehicles to keep occupants safe and healthy

5.2.4 CHALLENGES

5.2.4.1 Shifting demand of OEMs toward advanced materials to adhere to carbon emission targets

5.2.4.2 High cost of capital and infrastructure for re-engineering plastics

5.3 PORTER'S FIVE FORCES ANALYSIS

TABLE 4 PORTER'S FIVE FORCES ANALYSIS

FIGURE 23 PORTER'S FIVE FORCES ANALYSIS

5.3.1 THREAT OF NEW ENTRANTS

5.3.2 THREAT OF SUBSTITUTES

5.3.3 BARGAINING POWER OF SUPPLIERS

5.3.4 BARGAINING POWER OF BUYERS

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

5.4 ECOSYSTEM/MARKET INTERCONNECTION

FIGURE 24 ECOSYSTEM: ELECTRIC VEHICLE PLASTICS MARKET

5.5 SUPPLY CHAIN ANALYSIS

FIGURE 25 SUPPLY CHAIN ANALYSIS: ELECTRIC VEHICLE PLASTICS MARKET

FIGURE 26 ELECTRIC VEHICLE PLASTICS MARKET: SUPPLY CHAIN PLAYERS

5.6 AVERAGE SELLING PRICE ANALYSIS

5.6.1 BY PLASTIC TYPE, 2021

TABLE 5 AVERAGE PRICE, BY PLASTIC TYPE, 2021 (USD/TON)

5.7 REVENUE SHIFT DRIVING MARKET GROWTH

5.8 CUSTOMER BUYING BEHAVIOR

5.8.1 BUYING CRITERIA

FIGURE 27 KEY BUYING CRITERIA FOR ELECTRIC VEHICLE PLASTICS

TABLE 6 KEY BUYING CRITERIA FOR ELECTRIC VEHICLE PLASTICS

APPLICATIONS

5.8.2 KEY STAKEHOLDERS IN BUYING PROCESS

TABLE 7 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR ELECTRIC VEHICLE PLASTICS APPLICATIONS (%)

5.9 PATENT ANALYSIS

TABLE 8 APPLICATIONS AND PATENTS GRANTED, 2019–2022

5.10 CASE STUDY ANALYSIS

5.10.1 PERFORMANCE PLASTICS, LLC RACES TO SOLUTION WITH THERMOPLASTIC GEAR

5.10.2 SUPPORTING PLASTIC PROCESS QUALITY CONTROL FOR AUTOMOTIVE DASHBOARD MATERIALS

5.10.3 CONVERSION OF METAL ROLLING ELEMENT BEARING TO ONE-PIECE, HIGH-PERFORMANCE PLASTIC BEARING

5.11 TRADE ANALYSIS

5.11.1 AUTOMOTIVE PLASTICS AND PARTS EXPORT TRADE DATA, BY COUNTRY, 2021 (USD)

TABLE 9 EXPORT TRADE DATA, BY COUNTRY, 2021

5.11.2 AUTOMOTIVE PLASTICS AND PARTS IMPORT TRADE DATA, BY COUNTRY, 2021 (USD)

TABLE 10 IMPORT TRADE DATA, BY COUNTRY, 2021

5.12 TECHNOLOGICAL ANALYSIS

5.12.1 OVERVIEW

5.12.2 MATERIAL SUPPLIER PERSPECTIVE

5.12.3 OEM INITIATIVES

TABLE 11 KEY RECYCLED/BIOPLASTIC INITIATIVES BY EV OEMS

5.13 KEY CONFERENCES AND EVENTS IN 2022-2023

TABLE 12 ELECTRIC VEHICLE PLASTICS MARKET: DETAILED LIST OF CONFERENCES AND EVENTS

6 RECOMMENDATIONS BY MARKET SAND MARKETS

6.1 ASIA PACIFIC TO BE PRIORITY MARKET FOR PLASTIC SUPPLIERS

6.2 POLYPROPYLENE HELPS IN WEIGHT REDUCTION AND PROVIDES COST-EFFECTIVE SOLUTION

6.3 CONCLUSION

7 ELECTRIC VEHICLE PLASTICS MARKET, BY PLASTIC TYPE

7.1 INTRODUCTION

7.1.1 RESEARCH METHODOLOGY

7.1.2 ASSUMPTIONS/LIMITATIONS

7.1.3 INDUSTRY INSIGHTS

FIGURE 28 ELECTRIC VEHICLE PLASTICS MARKET, BY PLASTIC TYPE, 2022 VS. 2027 (USD MILLION)

TABLE 13 ELECTRIC VEHICLE PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (TONS)

TABLE 14 ELECTRIC VEHICLE PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (TONS)

TABLE 15 ELECTRIC VEHICLE PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (USD MILLION)

TABLE 16 ELECTRIC VEHICLE PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (USD MILLION)

7.2 ACRYLONITRILE BUTADIENE STYRENE (ABS)

7.2.1 LIGHTWEIGHT AND HIGH-STRENGTH APPLICATIONS TO DRIVE DEMAND FOR ABS

TABLE 17 ACRYLONITRILE BUTADIENE STYRENE MARKET FOR ELECTRIC

VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 18 ACRYLONITRILE BUTADIENE STYRENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 19 ACRYLONITRILE BUTADIENE STYRENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 20 ACRYLONITRILE BUTADIENE STYRENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.3 POLYAMIDE (PA)

7.3.1 NEW GRADES OF POLYAMIDE 6 TO DRIVE POLYAMIDE-BASED APPLICATIONS IN ELECTRIC VEHICLES

TABLE 21 POLYAMIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 22 POLYAMIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 23 POLYAMIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 24 POLYAMIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.4 POLYCARBONATE (PC)

7.4.1 FREEDOM IN DESIGN AND SUPERIOR STRUCTURAL INTEGRITY TO DRIVE DEMAND

TABLE 25 POLYCARBONATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 26 POLYCARBONATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 27 POLYCARBONATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 28 POLYCARBONATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.5 POLYVINYL BUTYRAL (PVB)

7.5.1 PVB SUBSTITUTE ETHYLENE VINYL ACETATE (EVA) LIKELY TO STAGNATE MARKET GROWTH

TABLE 29 POLYVINYL BUTYRAL MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 30 POLYVINYL BUTYRAL MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 31 POLYVINYL BUTYRAL MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 32 POLYVINYL BUTYRAL MARKET FOR ELECTRIC VEHICLES, BY REGION,

2022–2027 (USD MILLION)

7.6 POLYURETHANE (PU)

7.6.1 HIGH DURABILITY AND EASY-TO-MANUFACTURE CHARACTERISTICS TO DRIVE DEMAND IN INTERIOR APPLICATIONS

TABLE 33 POLYURETHANE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 34 POLYURETHANE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 35 POLYURETHANE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 36 POLYURETHANE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.7 POLYPROPYLENE (PP)

7.7.1 LIGHTER WEIGHT AND LOW COST OF POLYPROPYLENE TO DRIVE DEMAND

TABLE 37 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 38 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 39 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 40 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.8 POLYVINYL CHLORIDE (PVC)

7.8.1 INCREASING ELECTRICAL APPLICATIONS IN EV TO DRIVE DEMAND

TABLE 41 POLYVINYL CHLORIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 42 POLYVINYL CHLORIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 43 POLYVINYL CHLORIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 44 POLYVINYL CHLORIDE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.9 POLYMETHYL METHACRYLATE (PMMA)

7.9.1 100% RECYCLABILITY MAKES PMMA WIDELY USED MATERIAL

TABLE 45 POLYMETHYL METHACRYLATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 46 POLYMETHYL METHACRYLATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 47 POLYMETHYL METHACRYLATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 48 POLYMETHYL METHACRYLATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.10 HIGH-DENSITY POLYETHYLENE (HDPE)

7.10.1 WASTE REDUCTION DUE TO LONG SHELF LIFE TO DRIVE DEMAND

TABLE 49 HIGH-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 50 HIGH-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 51 HIGH-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 52 HIGH-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.11 LOW-DENSITY POLYETHYLENE (LDPE)

7.11.1 EASE OF MANUFACTURING AND FLEXIBILITY TO DRIVE DEMAND

TABLE 53 LOW-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 54 LOW-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 55 LOW-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 56 LOW-DENSITY POLYETHYLENE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.12 POLYBUTYLENE TEREPHTHALATE (PBT)

7.12.1 HIGHER GEOMETRIC TOLERANCE THAN POLYCARBONATE TO OPEN NEW APPLICATION AREAS

TABLE 57 POLYBUTYLENE TEREPHTHALATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (TONS)

TABLE 58 POLYBUTYLENE TEREPHTHALATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (TONS)

TABLE 59 POLYBUTYLENE TEREPHTHALATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2018–2021 (USD MILLION)

TABLE 60 POLYBUTYLENE TEREPHTHALATE MARKET FOR ELECTRIC VEHICLES, BY REGION, 2022–2027 (USD MILLION)

7.13 OTHER PLASTICS

7.13.1 LOW-COST APPLICATIONS IN EV TO DRIVE DEMAND FOR POLYSTYRENE

TABLE 61 OTHER PLASTICS MARKET FOR ELECTRIC VEHICLES, BY REGION,

2018–2021 (TONS)

TABLE 62 OTHER PLASTICS MARKET FOR ELECTRIC VEHICLES, BY REGION,
2022–2027 (TONS)

TABLE 63 OTHER PLASTICS MARKET FOR ELECTRIC VEHICLES, BY REGION,
2018–2021 (USD MILLION)

TABLE 64 OTHER PLASTICS MARKET FOR ELECTRIC VEHICLES, BY REGION,
2022–2027 (USD MILLION)

8 ELECTRIC VEHICLE PLASTICS MARKET, BY APPLICATION

8.1 INTRODUCTION

8.1.1 RESEARCH METHODOLOGY

8.1.2 ASSUMPTIONS

8.1.3 INDUSTRY INSIGHTS

FIGURE 29 ELECTRIC VEHICLE PLASTICS MARKET, BY APPLICATION, 2022 VS.
2027 (USD MILLION)

TABLE 65 ELECTRIC VEHICLE PLASTICS MARKET, BY APPLICATION, 2018–2021
(TONS)

TABLE 66 ELECTRIC VEHICLE PLASTICS MARKET, BY APPLICATION, 2022–2027
(TONS)

TABLE 67 ELECTRIC VEHICLE PLASTICS MARKET, BY APPLICATION, 2018–2021
(USD MILLION)

TABLE 68 ELECTRIC VEHICLE PLASTICS MARKET, BY APPLICATION, 2022–2027
(USD MILLION)

8.2 POWERTRAIN SYSTEM/UNDER BONNET

8.2.1 LIGHTWEIGHT BATTERY CASINGS TO DRIVE PLASTIC DEMAND IN
POWERTRAIN SYSTEMS

TABLE 69 POWERTRAIN SYSTEM/UNDER BONNET: ELECTRIC VEHICLE
PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 70 POWERTRAIN SYSTEM/UNDER BONNET: ELECTRIC VEHICLE
PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 71 POWERTRAIN SYSTEM/UNDER BONNET: ELECTRIC VEHICLE
PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 72 POWERTRAIN SYSTEM/UNDER BONNET: ELECTRIC VEHICLE
PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

8.3 EXTERIOR

8.3.1 BETTER SAFETY FEATURES TO DRIVE DEMAND FOR PLASTICS IN
EXTERIOR APPLICATIONS

TABLE 73 EXTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,

2018–2021 (TONS)

TABLE 74 EXTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,
2022–2027 (TONS)

TABLE 75 EXTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,
2018–2021 (USD MILLION)

TABLE 76 EXTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,
2022–2027 (USD MILLION)

8.4 INTERIOR

8.4.1 CUSTOMER PREFERENCE FOR BETTER AESTHETICS AND HIGHER
COMFORT TO DRIVE DEMAND

TABLE 77 INTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,
2018–2021 (TONS)

TABLE 78 INTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,
2022–2027 (TONS)

TABLE 79 INTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,
2018–2021 (USD MILLION)

TABLE 80 INTERIOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION,
2022–2027 (USD MILLION)

8.5 LIGHTING & ELECTRIC WIRING

8.5.1 ADVANCED SAFETY FEATURES TO DRIVE DEMAND FOR PLASTICS IN
LIGHTING & ELECTRIC WIRING

TABLE 81 LIGHTING & ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS
MARKET, BY REGION, 2018–2021 (TONS)

TABLE 82 LIGHTING & ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS
MARKET, BY REGION, 2022–2027 (TONS)

TABLE 83 LIGHTING & ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS
MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 84 LIGHTING & ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS
MARKET, BY REGION, 2022–2027 (USD MILLION)

9 ELECTRIC VEHICLE PLASTICS MARKET, BY COMPONENT

9.1 INTRODUCTION

9.1.1 RESEARCH METHODOLOGY

9.1.2 ASSUMPTIONS

9.1.3 INDUSTRY INSIGHTS

FIGURE 30 ELECTRIC VEHICLE PLASTICS MARKET, BY COMPONENT, 2022 VS.
2027 (USD MILLION)

TABLE 85 ELECTRIC VEHICLE PLASTICS MARKET, BY COMPONENT, 2018–2021

(TONS)

TABLE 86 ELECTRIC VEHICLE PLASTICS MARKET, BY COMPONENT, 2022–2027

(TONS)

TABLE 87 ELECTRIC VEHICLE PLASTICS MARKET, BY COMPONENT, 2018–2021

(USD MILLION)

TABLE 88 ELECTRIC VEHICLE PLASTICS MARKET, BY COMPONENT, 2022–2027

(USD MILLION)

9.2 DASHBOARD

9.2.1 BETTER SAFETY AND SUPERIOR COMFORT FEATURES TO DRIVE DEMAND

TABLE 89 DASHBOARD: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 90 DASHBOARD: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 91 DASHBOARD: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 92 DASHBOARD: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.3 SEATS

9.3.1 VEHICLE WEIGHT REDUCTION AND AESTHETIC SEAT DESIGN TO DRIVE DEMAND

TABLE 93 SEATS: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 94 SEATS: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 95 SEATS: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 96 SEATS: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.4 INTERIOR TRIM

9.4.1 QUALITY AESTHETIC LOOK AND DESIGN FLEXIBILITY TO DRIVE DEMAND

TABLE 97 INTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 98 INTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 99 INTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 100 INTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.5 CAR UPHOLSTERY

9.5.1 BETTER INTERIOR CUSTOMIZATION OF UPHOLSTERY FOR AESTHETICS TO DRIVE DEMAND

TABLE 101 CAR UPHOLSTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 102 CAR UPHOLSTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 103 CAR UPHOLSTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 104 CAR UPHOLSTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.6 BUMPER

9.6.1 SMART DRIVING ASSIST SYSTEMS ALONG WITH BETTER SAFETY FEATURES TO DRIVE DEMAND

TABLE 105 BUMPER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 106 BUMPER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 107 BUMPER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 108 BUMPER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.7 BODY

9.7.1 IMPROVED AERODYNAMICS DUE TO DESIGN FLEXIBILITY OF PLASTICS TO DRIVE DEMAND

TABLE 109 BODY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 110 BODY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 111 BODY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 112 BODY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.8 EXTERIOR TRIM

9.8.1 DURABLE LIGHTWEIGHT EXTERIOR PARTS TO DRIVE DEMAND FOR PLASTIC COMPONENTS

TABLE 113 EXTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 114 EXTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY

REGION, 2022–2027 (TONS)

TABLE 115 EXTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 116 EXTERIOR TRIM: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.9 BATTERY

9.9.1 REDUCTION OF BATTERY WEIGHT TO INCREASE DRIVING RANGE SUPPORTING ADOPTION OF BATTERY PLASTICS

9.9.1.1 Battery casing

TABLE 117 BATTERY CASING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 118 BATTERY CASING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 119 BATTERY CASING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 120 BATTERY CASING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.9.1.2 Battery pack

TABLE 121 BATTERY PACK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 122 BATTERY PACK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 123 BATTERY PACK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 124 BATTERY PACK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.9.1.3 Battery separator

TABLE 125 BATTERY SEPARATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 126 BATTERY SEPARATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 127 BATTERY SEPARATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 128 BATTERY SEPARATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.9.1.4 Battery (other components)

TABLE 129 BATTERY (OTHER COMPONENTS): ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 130 BATTERY (OTHER COMPONENTS): ELECTRIC VEHICLE PLASTICS

MARKET, BY REGION, 2022–2027 (TONS)

TABLE 131 BATTERY (OTHER COMPONENTS): ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 132 BATTERY (OTHER COMPONENTS): ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.10 AUXILIARY BATTERY

9.10.1 RISING ADOPTION OF LI-ION BATTERIES EXPECTED TO DRIVE ADOPTION OF PLASTICS IN AUXILIARY BATTERIES

TABLE 133 AUXILIARY BATTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 134 AUXILIARY BATTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 135 AUXILIARY BATTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 136 AUXILIARY BATTERY: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.11 ENGINE

9.11.1 HIGH-PERFORMANCE PLASTICS FOR ELEVATED TEMPERATURE APPLICATIONS IN PHEVS TO DRIVE DEMAND

TABLE 137 ENGINE: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 138 ENGINE: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 139 ENGINE: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 140 ENGINE: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.12 ENGINE TOP COVER

9.12.1 HIGH-TEMPERATURE RESISTANCE AND LOW-WEIGHT APPLICATIONS TO DRIVE DEMAND

TABLE 141 ENGINE TOP COVER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 142 ENGINE TOP COVER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 143 ENGINE TOP COVER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 144 ENGINE TOP COVER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.13 ENGINE ENCAPSULATION

9.13.1 LIGHTWEIGHT PLASTIC ENCAPSULATIONS TO BOOST DRIVING RANGE
TABLE 145 ENGINE ENCAPSULATION: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 146 ENGINE ENCAPSULATION: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 147 ENGINE ENCAPSULATION: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 148 ENGINE ENCAPSULATION: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.14 FUEL TANK

9.14.1 LIGHTWEIGHT FUEL TANKS TO IMPROVE EV DRIVING RANGE

TABLE 149 FUEL TANK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 150 FUEL TANK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 151 FUEL TANK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 152 FUEL TANK: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.15 LIGHTING

9.15.1 ADVANCED LIGHTING SOLUTIONS FOR BETTER VISIBILITY TO BOOST DEMAND

TABLE 153 LIGHTING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 154 LIGHTING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 155 LIGHTING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 156 LIGHTING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.16 ELECTRIC WIRING

9.16.1 INCREASED ELECTRONIC COMPONENTS IN ELECTRIC VEHICLES TO DRIVE DEMAND

TABLE 157 ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 158 ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 159 ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 160 ELECTRIC WIRING: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.17 FLOOR INSULATOR

9.17.1 SMOOTHER RIDE EXPERIENCE AND BETTER VIBRATIONAL CONTROL TO DRIVE DEMAND

TABLE 161 FLOOR INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 162 FLOOR INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 163 FLOOR INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 164 FLOOR INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.18 FENDER INSULATOR

9.18.1 REDUCING VIBRATIONAL NOISE FOR BETTER RIDE EXPERIENCE TO BOOST DEMAND

TABLE 165 FENDER INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 166 FENDER INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 167 FENDER INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 168 FENDER INSULATOR: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.19 WHEEL ARC LINER

9.19.1 WEIGHT REDUCTION FOR ACOUSTIC APPLICATIONS TO DRIVE DEMAND

TABLE 169 WHEEL ARC LINER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 170 WHEEL ARC LINER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 171 WHEEL ARC LINER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 172 WHEEL ARC LINER: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

9.20 OTHER COMPONENTS

9.20.1 LOWER WEIGHT RESERVOIR TANKS TO BOOST DEMAND

TABLE 173 OTHER COMPONENTS: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 174 OTHER COMPONENTS: ELECTRIC VEHICLE PLASTICS MARKET, BY

REGION, 2022–2027 (TONS)

TABLE 175 OTHER COMPONENTS: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 176 OTHER COMPONENTS: ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

10 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE

10.1 INTRODUCTION

10.1.1 RESEARCH METHODOLOGY

10.1.2 ASSUMPTIONS/LIMITATIONS

10.1.3 INDUSTRY INSIGHTS

FIGURE 31 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE, 2022 VS. 2027 (USD MILLION)

TABLE 177 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE, 2018–2021 (TONS)

TABLE 178 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE, 2022–2027 (TONS)

TABLE 179 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE, 2018–2021 (USD MILLION)

TABLE 180 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE, 2022–2027 (USD MILLION)

10.2 BEV

10.2.1 FOCUS ON INCREASING VEHICLE DRIVING RANGE TO DRIVE DEMAND FOR PLASTICS

TABLE 181 BEV PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (TONS)

TABLE 182 BEV PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (TONS)

TABLE 183 BEV PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (USD MILLION)

TABLE 184 BEV PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (USD MILLION)

10.3 PHEV/HEV

10.3.1 HIGHER NUMBER OF PLASTIC COMPONENTS TO DRIVE DEMAND

TABLE 185 PHEV/HEV PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (TONS)

TABLE 186 PHEV/HEV PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (TONS)

TABLE 187 PHEV/HEV PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (USD MILLION)

TABLE 188 PHEV/HEV PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (USD MILLION)

11 ICE PASSENGER CAR PLASTICS MARKET, BY COMPONENT

11.1 INTRODUCTION

11.1.1 RESEARCH METHODOLOGY

11.1.2 ASSUMPTIONS

11.1.3 INDUSTRY INSIGHTS

FIGURE 32 ICE PASSENGER CAR PLASTICS MARKET, BY COMPONENT, 2022 VS. 2027 (USD MILLION)

TABLE 189 ICE PASSENGER CAR PLASTICS MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 190 ICE PASSENGER CAR PLASTICS MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 191 ICE PASSENGER CAR PLASTICS MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 192 ICE PASSENGER CAR PLASTICS MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

11.2 DASHBOARD

TABLE 193 DASHBOARD: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 194 DASHBOARD: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 195 DASHBOARD: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 196 DASHBOARD: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.3 SEATS

TABLE 197 SEATS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 198 SEATS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 199 SEATS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 200 SEATS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.4 INTERIOR TRIM

TABLE 201 INTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 202 INTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY

REGION, 2022–2027 (TONS)

TABLE 203 INTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 204 INTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.5 CAR UPHOLSTERY

TABLE 205 CAR UPHOLSTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 206 CAR UPHOLSTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 207 CAR UPHOLSTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 208 CAR UPHOLSTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.6 BUMPER

TABLE 209 BUMPER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 210 BUMPER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 211 BUMPER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 212 BUMPER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.7 BODY

TABLE 213 BODY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 214 BODY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 215 BODY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 216 BODY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.8 EXTERIOR TRIM

TABLE 217 EXTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 218 EXTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 219 EXTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 220 EXTERIOR TRIM: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.9 BATTERY

TABLE 221 BATTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 222 BATTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 223 BATTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 224 BATTERY: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.10 ENGINE

TABLE 225 ENGINE: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 226 ENGINE: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 227 ENGINE: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 228 ENGINE: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.11 ENGINE TOP COVER

TABLE 229 ENGINE TOP COVER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 230 ENGINE TOP COVER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 231 ENGINE TOP COVER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 232 ENGINE TOP COVER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.12 ENGINE ENCAPSULATION

TABLE 233 ENGINE ENCAPSULATION: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 234 ENGINE ENCAPSULATION: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 235 ENGINE ENCAPSULATION: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 236 ENGINE ENCAPSULATION: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.13 FUEL TANK

TABLE 237 FUEL TANK: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 238 FUEL TANK: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 239 FUEL TANK: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 240 FUEL TANK: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.14 LIGHTING

TABLE 241 LIGHTING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 242 LIGHTING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 243 LIGHTING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 244 LIGHTING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.15 ELECTRIC WIRING

TABLE 245 ELECTRIC WIRING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 246 ELECTRIC WIRING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 247 ELECTRIC WIRING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 248 ELECTRIC WIRING: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.16 FLOOR INSULATOR

TABLE 249 FLOOR INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 250 FLOOR INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 251 FLOOR INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 252 FLOOR INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.17 FENDER INSULATOR

TABLE 253 FENDER INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 254 FENDER INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY

REGION, 2022–2027 (TONS)

TABLE 255 FENDER INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 256 FENDER INSULATOR: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.18 WHEEL ARC LINER

TABLE 257 WHEEL ARC LINER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 258 WHEEL ARC LINER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 259 WHEEL ARC LINER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 260 WHEEL ARC LINER: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

11.19 OTHER COMPONENTS

TABLE 261 OTHER COMPONENTS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 262 OTHER COMPONENTS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 263 OTHER COMPONENTS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 264 OTHER COMPONENTS: ICE PASSENGER CAR PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

12 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY MATERIAL

12.1 INTRODUCTION

12.1.1 RESEARCH METHODOLOGY

12.1.2 ASSUMPTIONS

FIGURE 33 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY MATERIAL, 2022 VS. 2027 (USD MILLION)

TABLE 265 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY MATERIAL, 2018–2021 (TONS)

TABLE 266 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY MATERIAL, 2022–2027 (TONS)

TABLE 267 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY MATERIAL, 2018–2021 (USD MILLION)

TABLE 268 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY MATERIAL, 2022–2027 (USD MILLION)

12.2 POLYAMIDE (PA)

12.2.1 ADVANCEMENTS IN NEW GRADES OF POLYAMIDE TO DRIVE ITS DEMAND IN ELECTRIC VEHICLE BATTERIES

TABLE 269 POLYAMIDE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (TONS)

TABLE 270 POLYAMIDE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (TONS)

TABLE 271 POLYAMIDE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (USD MILLION)

TABLE 272 POLYAMIDE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (USD MILLION)

12.3 POLYCARBONATE (PC)

12.3.1 LIGHTWEIGHT PROPERTIES EXPECTED TO BOOST POLYCARBONATE ADOPTION

TABLE 273 POLYCARBONATE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (TONS)

TABLE 274 POLYCARBONATE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (TONS)

TABLE 275 POLYCARBONATE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (USD MILLION)

TABLE 276 POLYCARBONATE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (USD MILLION)

12.4 POLYPROPYLENE (PP)

12.4.1 EXCELLENT MOLDABILITY AND MECHANICAL PROPERTIES EXPECTED TO DRIVE ADOPTION

TABLE 277 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (TONS)

TABLE 278 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (TONS)

TABLE 279 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (USD MILLION)

TABLE 280 POLYPROPYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (USD MILLION)

12.5 POLYETHYLENE (PE)

12.5.1 HIGH TENSILE STRENGTH AND CHEMICAL RESISTANCE EXPECTED TO DRIVE MARKET GROWTH

TABLE 281 POLYETHYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (TONS)

TABLE 282 POLYETHYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY

REGION, 2022–2027 (TONS)

TABLE 283 POLYETHYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (USD MILLION)

TABLE 284 POLYETHYLENE MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (USD MILLION)

12.6 OTHER PLASTIC MATERIALS

12.6.1 INCREASING ADOPTION OF PC AND PU IN EV BATTERIES TO DRIVE MARKET GROWTH

TABLE 285 OTHER PLASTIC MATERIALS MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (TONS)

TABLE 286 OTHER PLASTIC MATERIALS MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (TONS)

TABLE 287 OTHER PLASTIC MATERIALS MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2018–2021 (USD MILLION)

TABLE 288 OTHER PLASTIC MATERIALS MARKET FOR ELECTRIC VEHICLE BATTERY, BY REGION, 2022–2027 (USD MILLION)

13 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY TYPE

13.1 INTRODUCTION

13.1.1 RESEARCH METHODOLOGY

13.1.2 ASSUMPTIONS

FIGURE 34 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY TYPE, 2022 VS. 2027 (USD MILLION)

TABLE 289 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY TYPE, 2018–2021 (TONS)

TABLE 290 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY TYPE, 2022–2027 (TONS)

TABLE 291 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY TYPE, 2018–2021 (USD MILLION)

TABLE 292 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY TYPE, 2022–2027 (USD MILLION)

13.2 DRIVE BATTERY

13.2.1 TREND TOWARD REDUCING OVERALL BATTERY WEIGHT TO DRIVE ADOPTION OF BATTERY PLASTICS

TABLE 293 DRIVE BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 294 DRIVE BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 295 DRIVE BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 296 DRIVE BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

13.3 AUXILIARY BATTERY

13.3.1 TRANSITION FROM LEAD ACID TO LI-ION BATTERIES TO DRIVE ADOPTION OF PLASTICS IN AUXILIARY BATTERIES

TABLE 297 AUXILIARY BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 298 AUXILIARY BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 299 AUXILIARY BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 300 AUXILIARY BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

14 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY VEHICLE TYPE

14.1 INTRODUCTION

14.1.1 RESEARCH METHODOLOGY

14.1.2 ASSUMPTIONS

FIGURE 35 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY VEHICLE TYPE, 2022 VS. 2027 (USD MILLION)

TABLE 301 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY VEHICLE TYPE, 2018–2021 (TONS)

TABLE 302 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY VEHICLE TYPE, 2022–2027 (TONS)

TABLE 303 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY VEHICLE TYPE, 2018–2021 (USD MILLION)

TABLE 304 ELECTRIC VEHICLE BATTERY PLASTICS MARKET, BY VEHICLE TYPE, 2022–2027 (USD MILLION)

14.2 BEV

14.2.1 INCREASING FOCUS ON REDUCING VEHICLE WEIGHT TO DRIVE DEMAND FOR PLASTICS IN BEV BATTERIES

TABLE 305 BEV BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 306 BEV BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 307 BEV BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 308 BEV BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

14.3 PHEV

14.3.1 DEVELOPMENTS IN BATTERY PLASTIC MATERIALS FOR HOUSINGS/CASINGS EXPECTED TO DRIVE DEMAND

TABLE 309 PHEV BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 310 PHEV BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 311 PHEV BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 312 PHEV BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

14.4 FCEV

14.4.1 CONTINUOUS DEVELOPMENTS IN FCEV TECHNOLOGY AND LAUNCH OF VARIOUS MODELS TO DRIVE MARKET

TABLE 313 FCEV BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 314 FCEV BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 315 FCEV BATTERY PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 316 FCEV BATTERY PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

15 ICE PASSENGER CAR PLASTICS MARKET, BY PLASTIC TYPE

15.1 INTRODUCTION

15.1.1 RESEARCH METHODOLOGY

15.1.2 ASSUMPTIONS/LIMITATIONS

15.1.3 INDUSTRY INSIGHTS

FIGURE 36 ICE PASSENGER CAR PLASTICS MARKET, BY PLASTIC TYPE, 2022 VS. 2027 (USD MILLION)

TABLE 317 ICE PASSENGER CAR PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (TONS)

TABLE 318 ICE PASSENGER CAR PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (TONS)

TABLE 319 ICE PASSENGER CAR PLASTICS MARKET, BY PLASTIC TYPE, 2018–2021 (USD MILLION)

TABLE 320 ICE PASSENGER CAR PLASTICS MARKET, BY PLASTIC TYPE, 2022–2027 (USD MILLION)

15.2 ACRYLONITRILE BUTADIENE STYRENE (ABS)

15.2.1 DEMAND FOR HIGH-QUALITY INTERIORS TO DRIVE GROWTH

TABLE 321 ACRYLONITRILE BUTADIENE STYRENE (ABS) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 322 ACRYLONITRILE-BUTADIENE-STYRENE (ABS) MARKET FOR ICE

PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 323 ACRYLONITRILE BUTADIENE STYRENE (ABS) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 324 ACRYLONITRILE-BUTADIENE-STYRENE (ABS) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.3 POLYAMIDE (PA)

15.3.1 NEW GRADES OF POLYAMIDE FOR UNDER-THE-HOOD APPLICATIONS TO DRIVE DEMAND

TABLE 325 POLYAMIDE (PA) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 326 POLYAMIDE (PA) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 327 POLYAMIDE (PA) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 328 POLYAMIDE (PA) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.4 POLYCARBONATE (PC)

15.4.1 PC PROVIDES A SUBSTITUTE FOR GLASS IN EXTERIOR APPLICATIONS AND ALLOWS DESIGN FLEXIBILITY—KEY DEMAND DRIVERS

TABLE 329 POLYCARBONATE (PC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 330 POLYCARBONATE (PC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 331 POLYCARBONATE (PC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 332 POLYCARBONATE (PC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.5 POLYVINYL BUTYRAL (PVB)

15.5.1 DEMAND FOR LAMINATED GLASS TO BOOST GROWTH

TABLE 333 POLYVINYL BUTYRAL (PVB) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 334 POLYVINYL BUTYRAL (PVB) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 335 POLYVINYL BUTYRAL (PVB) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 336 POLYVINYL BUTYRAL (PVB) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.6 POLYURETHANE (PU)

15.6.1 WIDE RANGE OF FIRMNESS TO DRIVE PU DEMAND FOR INTERIOR AND

EXTERIOR APPLICATIONS

TABLE 337 POLYURETHANE (PU) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 338 POLYURETHANE (PU) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 339 POLYURETHANE (PU) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 340 POLYURETHANE (PU) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.7 POLYPROPYLENE (PP)

15.7.1 EXCELLENT MECHANICAL PROPERTIES AND RELATIVELY LOW COST TO DRIVE DEMAND

TABLE 341 POLYPROPYLENE (PP) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 342 POLYPROPYLENE (PP) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 343 POLYPROPYLENE (PP) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 344 POLYPROPYLENE (PP) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.8 POLYVINYL CHLORIDE (PVC)

15.8.1 HIGH DURABILITY AND COST-PERFORMANCE ADVANTAGES TO DRIVE DEMAND

TABLE 345 POLYVINYL CHLORIDE (PVC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 346 POLYVINYL CHLORIDE (PVC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 347 POLYVINYL CHLORIDE (PVC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 348 POLYVINYL CHLORIDE (PVC) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.9 POLYMETHYL METHACRYLATE (PMMA)

15.9.1 EXCELLENT OPTICAL QUALITY AND LIGHT DIFFUSION TO DRIVE DEMAND

TABLE 349 POLYMETHYL METHACRYLATE (PMMA) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 350 POLYMETHYL METHACRYLATE (PMMA) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 351 POLYMETHYL METHACRYLATE (PMMA) MARKET FOR ICE

PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 352 POLYMETHYL METHACRYLATE (PMMA) MARKET FOR ICE

PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.10 HIGH-DENSITY POLYETHYLENE (HDPE)

15.10.1 LOWER WEIGHT AND COST-EFFECTIVE MANUFACTURING TO DRIVE DEMAND

TABLE 353 HDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 354 HDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 355 HDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 356 HDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.11 LOW-DENSITY POLYETHYLENE (LDPE)

15.11.1 EASE OF MANUFACTURING AND HIGH-PERFORMANCE TO DRIVE DEMAND

TABLE 357 LDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 358 LDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 359 LDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 360 LDPE MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.12 POLYBUTYLENE TEREPHTHALATE (PBT)

15.12.1 HIGH DIMENSIONAL STABILITY TO DRIVE DEMAND

TABLE 361 POLYBUTYLENE TEREPHTHALATE (PBT) FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 362 POLYBUTYLENE TEREPHTHALATE (PBT) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (TONS)

TABLE 363 POLYBUTYLENE TEREPHTHALATE (PBT) MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (USD MILLION)

TABLE 364 POLYBUTYLENE TEREPHTHALATE (PBT) MARKET FOR ICE PASSENGER CAR, BY REGION, 2022–2027 (USD MILLION)

15.13 OTHER PLASTICS

TABLE 365 OTHER PLASTICS MARKET FOR ICE PASSENGER CAR, BY REGION, 2018–2021 (TONS)

TABLE 366 OTHER PLASTICS MARKET FOR ICE PASSENGER CAR, BY REGION,

2022–2027 (TONS)

TABLE 367 OTHER PLASTICS MARKET FOR ICE PASSENGER CAR, BY REGION,
2018–2021 (USD MILLION)

TABLE 368 OTHER PLASTICS MARKET FOR ICE PASSENGER CAR, BY REGION,
2022–2027 (USD MILLION)

16 ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT

16.1 INTRODUCTION

16.1.1 RESEARCH METHODOLOGY

16.1.2 ASSUMPTIONS/LIMITATIONS

16.1.3 INDUSTRY INSIGHTS

FIGURE 37 ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT,
2022 VS. 2027 (USD MILLION)

TABLE 369 ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT,
2018–2021 (TONS)

TABLE 370 ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT,
2022–2027 (TONS)

TABLE 371 ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT,
2018–2021 (USD MILLION)

TABLE 372 ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT,
2022–2027 (USD MILLION)

16.2 ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT

16.2.1 DASHBOARD

16.2.2 SEATS

16.2.3 INTERIOR TRIM

16.2.4 CAR UPHOLSTERY

16.2.5 BUMPER

16.2.6 BODY

16.2.7 EXTERIOR TRIM

16.2.8 BATTERY

16.2.9 ENGINE

16.2.10 FUEL TANK

16.2.11 LIGHTING

16.2.12 FLOOR INSULATOR

16.2.13 FENDER INSULATOR

16.2.14 ENGINE TOP COVER

16.2.15 WHEEL ARC LINER

16.2.16 ENGINE ENCAPSULATION

TABLE 373 ASIA PACIFIC: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 374 ASIA PACIFIC: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 375 ASIA PACIFIC: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 376 ASIA PACIFIC: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 377 EUROPE: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 378 EUROPE: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 379 EUROPE: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 380 EUROPE: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 381 NORTH AMERICA: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 382 NORTH AMERICA: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 383 NORTH AMERICA: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 384 NORTH AMERICA: ELECTRIC VEHICLE POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

17 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT

17.1 INTRODUCTION

17.1.1 RESEARCH METHODOLOGY

17.1.2 ASSUMPTIONS/LIMITATIONS

17.1.3 INDUSTRY INSIGHTS

FIGURE 38 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022 VS. 2027 (USD MILLION)

TABLE 385 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 386 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 387 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 388 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

17.2 ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT

17.2.1 DASHBOARD

17.2.2 SEATS

17.2.3 INTERIOR TRIM

17.2.4 CAR UPHOLSTERY

17.2.5 BUMPER

17.2.6 BODY

17.2.7 EXTERIOR TRIM

17.2.8 BATTERY

17.2.9 ENGINE

17.2.10 FUEL TANK

17.2.11 LIGHTING

17.2.12 FLOOR INSULATOR

17.2.13 FENDER INSULATOR

17.2.14 ENGINE TOP COVER

17.2.15 WHEEL ARC LINER

17.2.16 ENGINE ENCAPSULATION

TABLE 389 ASIA PACIFIC: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 390 ASIA PACIFIC: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 391 ASIA PACIFIC: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 392 ASIA PACIFIC: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 393 EUROPE: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 394 EUROPE: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 395 EUROPE: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 396 EUROPE: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 397 NORTH AMERICA: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (TONS)

TABLE 398 NORTH AMERICA: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (TONS)

TABLE 399 NORTH AMERICA: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 400 NORTH AMERICA: ICE PASSENGER CAR POLYPROPYLENE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

18 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION

18.1 INTRODUCTION

FIGURE 39 ELECTRIC VEHICLE PLASTICS MARKET: ASIA PACIFIC IS ESTIMATED TO GROW AT HIGHEST CAGR (2022–2027)

18.1.1 RESEARCH METHODOLOGY

18.1.2 ASSUMPTIONS

18.1.3 INDUSTRY INSIGHTS

FIGURE 40 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022 VS. 2027 (USD MILLION)

TABLE 401 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (TONS)

TABLE 402 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (TONS)

TABLE 403 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 404 ELECTRIC VEHICLE PLASTICS MARKET, BY REGION, 2022–2027 (USD MILLION)

18.2 ASIA PACIFIC

FIGURE 41 ASIA PACIFIC: ELECTRIC VEHICLE PLASTICS MARKET SNAPSHOT

TABLE 405 ASIA PACIFIC: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 406 ASIA PACIFIC: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 407 ASIA PACIFIC: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 408 ASIA PACIFIC: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.2.1 CHINA

18.2.1.1 Improving air quality to drive EV sales and subsequent plastic component demand

TABLE 409 CHINA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 410 CHINA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE

AND APPLICATION, 2022–2027 (TONS)

TABLE 411 CHINA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 412 CHINA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.2.2 INDIA

18.2.2.1 Strategic government initiatives and new automotive regulations to boost EV sales

TABLE 413 INDIA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 414 INDIA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 415 INDIA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 416 INDIA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.2.3 JAPAN

18.2.3.1 Increasing PHEV sales projected to drive demand

TABLE 417 JAPAN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 418 JAPAN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 419 JAPAN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 420 JAPAN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.2.4 SOUTH KOREA

18.2.4.1 Technological advancements and improving charging infrastructure expected to drive demand

TABLE 421 SOUTH KOREA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 422 SOUTH KOREA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 423 SOUTH KOREA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 424 SOUTH KOREA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.3 NORTH AMERICA

FIGURE 42 ELECTRIC VEHICLE PLASTICS MARKET IN NORTH AMERICA, BY

COUNTRY, 2022 VS. 2027 (USD MILLION)

TABLE 425 NORTH AMERICA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 426 NORTH AMERICA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 427 NORTH AMERICA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 428 NORTH AMERICA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.3.1 US

18.3.1.1 High demand for low-weight high-performance plastics to drive EV plastics market

TABLE 429 US: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 430 US: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 431 US: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 432 US: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.3.2 CANADA

18.3.2.1 Road safety standards and better customer awareness to drive demand for plastic components

TABLE 433 CANADA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 434 CANADA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 435 CANADA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 436 CANADA: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.4 EUROPE

FIGURE 43 EUROPE: ELECTRIC VEHICLE PLASTICS MARKET SNAPSHOT

TABLE 437 EUROPE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 438 EUROPE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 439 EUROPE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 440 EUROPE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.4.1 NORWAY

18.4.1.1 Government EV target for 2025 to boost demand for light-weight plastic components

TABLE 441 NORWAY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 442 NORWAY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 443 NORWAY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 444 NORWAY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.4.2 GERMANY

18.4.2.1 Customer demand for high-quality interiors in EVs to boost adoption of performance plastics

TABLE 445 GERMANY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 446 GERMANY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 447 GERMANY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 448 GERMANY: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.4.3 UK

18.4.3.1 BEV powertrain applications in battery and thermal management to drive demand

TABLE 449 UK: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 450 UK: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 451 UK: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 452 UK: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.4.4 FRANCE

18.4.4.1 Improving charging infrastructure and high aesthetic interiors in EVs to drive demand

TABLE 453 FRANCE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE

AND APPLICATION, 2018–2021 (TONS)

TABLE 454 FRANCE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 455 FRANCE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 456 FRANCE: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.4.5 SWEDEN

18.4.5.1 High incentives on EVs to drive their sales and demand for plastics

TABLE 457 SWEDEN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 458 SWEDEN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 459 SWEDEN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 460 SWEDEN: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

18.4.6 NETHERLANDS

18.4.6.1 Advanced charging infrastructure for EVs to boost EV sales and EV plastic demand

TABLE 461 NETHERLANDS: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (TONS)

TABLE 462 NETHERLANDS: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (TONS)

TABLE 463 NETHERLANDS: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2018–2021 (USD MILLION)

TABLE 464 NETHERLANDS: ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE AND APPLICATION, 2022–2027 (USD MILLION)

19 COMPETITIVE LANDSCAPE

19.1 OVERVIEW

19.2 ELECTRIC VEHICLE PLASTICS MARKET SHARE ANALYSIS, 2021

TABLE 465 MARKET SHARE ANALYSIS, 2021

FIGURE 44 ELECTRIC VEHICLE PLASTICS MARKET SHARE ANALYSIS, 2021

19.3 REVENUE ANALYSIS OF TOP LISTED/PUBLIC PLAYERS

19.4 COMPANY EVALUATION QUADRANT

19.4.1 STAR

19.4.2 EMERGING LEADERS

19.4.3 PERVASIVE

19.4.4 PARTICIPANTS

FIGURE 45 COMPETITIVE EVALUATION MATRIX (PLASTICS MANUFACTURERS), 2021

TABLE 466 COMPANIES ADOPTED NEW PRODUCT DEVELOPMENTS AND EXPANSIONS AS KEY GROWTH STRATEGIES, 2019–2022

19.5 COMPETITIVE SCENARIO

19.5.1 NEW PRODUCT LAUNCHES

TABLE 467 PRODUCT LAUNCHES, 2019–2022

19.5.2 DEALS

TABLE 468 DEALS, 2019–2022

19.5.3 OTHER DEVELOPMENTS

TABLE 469 OTHER DEVELOPMENTS, 2019–2022

19.6 RIGHT TO WIN

TABLE 470 COMPANIES ADOPTED NEW PRODUCT DEVELOPMENTS, PARTNERSHIPS, AND SUPPLY CONTRACTS AS KEY GROWTH STRATEGIES FROM 2019–2022

19.7 COMPETITIVE BENCHMARKING

TABLE 471 ELECTRIC VEHICLE PLASTICS MARKET: DETAILED LIST OF KEY START-UPS/SMES

TABLE 472 ELECTRIC VEHICLE PLASTICS MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS

20 COMPANY PROFILES

20.1 KEY PLAYERS

(Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments)*

20.1.1 BASF SE

TABLE 473 BASF SE: BUSINESS OVERVIEW

FIGURE 46 BASF SE: COMPANY SNAPSHOT

TABLE 474 BASF SE: PRODUCTS OFFERED

TABLE 475 BASF SE: NEW PRODUCT DEVELOPMENTS

TABLE 476 BASF SE: DEALS

TABLE 477 BASF SE: OTHER DEVELOPMENTS

20.1.2 LYONDELLBASELL INDUSTRIES HOLDINGS B.V.

TABLE 478 LYONDELLBASELL INDUSTRIES HOLDINGS B.V.: BUSINESS OVERVIEW

FIGURE 47 LYONDELLBASELL INDUSTRIES HOLDINGS B.V.: COMPANY SNAPSHOT

TABLE 479 LYONDELLBASELL INDUSTRIES HOLDINGS B.V.: PRODUCTS OFFERED

TABLE 480 LYONDELLBASELL INDUSTRIES HOLDINGS B.V.: NEW PRODUCT DEVELOPMENTS

TABLE 481 LYONDELLBASELL INDUSTRIES HOLDINGS B.V.: DEALS

TABLE 482 LYONDELLBASELL INDUSTRIES HOLDINGS B.V.: OTHER DEVELOPMENTS

20.1.3 SABIC

TABLE 483 SABIC: BUSINESS OVERVIEW

FIGURE 48 SABIC: COMPANY SNAPSHOT

TABLE 484 SABIC: PRODUCTS OFFERED

TABLE 485 SABIC: NEW PRODUCT DEVELOPMENTS

TABLE 486 SABIC: DEALS

TABLE 487 SABIC: OTHER DEVELOPMENTS

20.1.4 DOW

TABLE 488 DOW: BUSINESS OVERVIEW

FIGURE 49 DOW: COMPANY SNAPSHOT

TABLE 489 DOW: PRODUCTS OFFERED

TABLE 490 DOW: NEW PRODUCT DEVELOPMENTS

TABLE 491 DOW: DEALS

TABLE 492 DOW: OTHER DEVELOPMENTS

20.1.5 DUPONT

TABLE 493 DUPONT: BUSINESS OVERVIEW

FIGURE 50 DUPONT: COMPANY SNAPSHOT

TABLE 494 DUPONT: PRODUCTS OFFERED

TABLE 495 DUPONT: DEALS

TABLE 496 DUPONT: OTHER DEVELOPMENTS

20.1.6 COVESTRO

TABLE 497 COVESTRO: BUSINESS OVERVIEW

FIGURE 51 COVESTRO: COMPANY SNAPSHOT

TABLE 498 COVESTRO: PRODUCTS OFFERED

TABLE 499 COVESTRO: NEW PRODUCT DEVELOPMENTS

TABLE 500 COVESTRO: DEALS

TABLE 501 COVESTRO: OTHER DEVELOPMENTS

20.1.7 SOLVAY

TABLE 502 SOLVAY: BUSINESS OVERVIEW

FIGURE 52 SOLVAY: COMPANY SNAPSHOT

TABLE 503 SOLVAY: PRODUCTS OFFERED

TABLE 504 SOLVAY: NEW PRODUCT DEVELOPMENTS

TABLE 505 SOLVAY: DEALS

TABLE 506 SOLVAY: OTHER DEVELOPMENTS

20.1.8 LANXESS

TABLE 507 LANXESS: BUSINESS OVERVIEW

FIGURE 53 LANXESS: COMPANY SNAPSHOT

TABLE 508 LANXESS: PRODUCTS OFFERED

TABLE 509 LANXESS: NEW PRODUCT DEVELOPMENTS

TABLE 510 LANXESS: DEALS

TABLE 511 LANXESS: OTHER DEVELOPMENTS

20.1.9 LG CHEM

TABLE 512 LG CHEM: BUSINESS OVERVIEW

FIGURE 54 LG CHEM: COMPANY SNAPSHOT

TABLE 513 LG CHEM: PRODUCTS OFFERED

20.1.10 ASAHI KASEI CORPORATION

TABLE 514 ASAHI KASEI CORPORATION: BUSINESS OVERVIEW

FIGURE 55 ASAHI KASEI CORPORATION: COMPANY SNAPSHOT

TABLE 515 ASAHI KASEI CORPORATION: PRODUCTS OFFERED

TABLE 516 ASAHI KASEI CORPORATION: OTHER DEVELOPMENTS

*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

20.2 OTHER KEY PLAYERS

20.2.1 EVONIK INDUSTRIES

TABLE 517 EVONIK INDUSTRIES: BUSINESS OVERVIEW

20.2.2 ARKEMA

TABLE 518 ARKEMA: BUSINESS OVERVIEW

20.2.3 INEOS

TABLE 519 INEOS: BUSINESS OVERVIEW

20.2.4 SUMITOMO CHEMICAL CO., LTD.

TABLE 520 SUMITOMO CHEMICAL CO., LTD.: BUSINESS OVERVIEW

20.2.5 UBE CORPORATION

TABLE 521 UBE CORPORATION: BUSINESS OVERVIEW

20.2.6 AGC CHEMICALS

TABLE 522 AGC CHEMICALS: BUSINESS OVERVIEW

20.2.7 MITSUBISHI ENGINEERING-PLASTICS CORPORATION

TABLE 523 MITSUBISHI ENGINEERING-PLASTICS CORPORATION: BUSINESS OVERVIEW

20.2.8 CELANESE CORPORATION

TABLE 524 CELANESE CORPORATION: BUSINESS OVERVIEW

20.2.9 FORMOSA PLASTICS CORPORATION

TABLE 525 FORMOSA PLASTICS CORPORATION: BUSINESS OVERVIEW

20.2.10 EMS-CHEMIE HOLDING AG

TABLE 526 EMS-CHEMIE HOLDING AG: BUSINESS OVERVIEW

21 APPENDIX

21.1 KEY INSIGHTS FROM INDUSTRY EXPERTS

21.2 DISCUSSION GUIDE

21.3 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

21.4 AVAILABLE CUSTOMIZATIONS

21.4.1 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE & REGION

21.4.1.1 BEV

21.4.1.2 PHEV/HEV

21.4.2 ELECTRIC VEHICLE PLASTICS MARKET, BY VEHICLE TYPE & COMPONENT

21.4.2.1 BEV

21.4.2.2 PHEV/HEV

21.4.3 ELECTRIC VEHICLE PLASTICS MARKET FOR FCEV, BY REGION

21.4.3.1 North America (US and Canada)

21.4.3.2 Europe (UK, France, Germany, Norway, Netherlands, and Sweden)

21.4.3.3 Asia Pacific (China, India, Japan, and South Korea)

21.4.4 ICE PASSENGER CAR PLASTICS MARKET, BY VEHICLE TYPE

21.4.4.1 Light commercial vehicle

21.4.4.2 Heavy commercial vehicle

21.4.5 ICE PASSENGER CAR PLASTICS MARKET, BY COUNTRY

21.4.5.1 Asia Pacific (China, Japan, India, and South Korea)

21.4.5.2 Europe (Germany, France, UK, Spain, Italy, and Russia)

21.4.5.3 North America (US, Canada, and Mexico)

21.4.5.4 RoW (Brazil and Iran)

21.4.6 ICE PASSENGER CAR PLASTICS MARKET, BY APPLICATION

21.4.6.1 Powertrain system/under bonnet

21.4.6.2 Exterior

21.4.6.3 Interior

21.4.6.4 Lighting & electric wiring

21.4.7 POLYURETHANE MARKET FOR ELECTRIC VEHICLES, BY COMPONENT AND REGION

21.4.7.1 Dashboard

21.4.7.2 Seats

21.4.7.3 Interior trim

21.4.7.4 Car upholstery

21.4.7.5 Bumper

21.4.7.6 Body

21.4.7.7 Exterior trim

21.4.7.8 Battery

21.4.7.9 Auxiliary battery

21.4.7.10 Engine

21.4.7.11 Fuel tank

21.4.7.12 Lighting

21.4.7.13 Others

21.5 RELATED REPORTS

21.6 AUTHOR DETAILS

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