

Polyhydroxyalkanoate (PHA) Market by Type (Short chain length, Medium Chain Length), Production Methods (Sugar Fermentation, Vegetable Oil Fermentation), Application (Packaging & Food Services, Biomedical) and Region - Global Forecast to 2027

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Report description:

PHA market is expected to reach at USD 167 million in 2027 at a CAGR of 15.3% during the forecast period. Growing awareness towards environment and harmful impacts of conventional plastics is driving the growth for PHA market. Developed regions such as Europe and North America are introducing strict regulations, which can provide lucrative opportunities for the market.

"By application, biomedical accounted for second-largest market share for PHA market, in terms of volume, in 2021"

Plastics are finding increasing use for the fabrication of biomedical materials and drug delivery applications. Both, synthetic and bio-based plastics are utilized for manufacturing biomedical equipment depending upon the suitability and properties required. The synthetic plastics used are PE, PS, PVC, and PP, whereas PLA and PHA are biodegradable. The mechanical properties of these materials are of primary importance in this segment as these need to match with their specific medical applications including tissue engineering and wound treatment.

"Sugar fermentation is expected to be the second-fastest growing application for PHA market during the forecast period, in terms of value"

sugar fermentation is The most common production method, based on the source of raw material. Since sugarcane, beet, molasses, and bagasse is available in abundance and is easily consumed and converted by bacteria to produce PHA, it is projected to grow at second-highest CAGR, in terms of value, during the forecast period.

"Based on region, Europe region was the largest market for PHA in 2021, in terms of volume."

Europe is one of the pioneers of biodegradable plastics and has a significant focus on sustainable packaging. Increased awareness in Europe about environmental issues has resulted in the formulation of laws and regulations which have influenced the creation

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of biological waste treatment facilities.

In the process of determining and verifying the market size for several segments and subsegments identified through secondary research, extensive primary interviews were conducted. A breakdown of the profiles of the primary interviewees are as follows:

- By Company Type: Tier 1 - 69%, Tier 2 - 23%, and Tier 3 - 8%
- By Designation: C-Level - 23%, Director Level - 37%, and Others - 40%
- By Region: North America - 30%, Europe - 18%, APAC - 41%, Rest of the World-11%

The key players in this market are include Danimer Scientific (US), Shenzhen Ecomann Biotechnology Co., Ltd. (China), Kaneka Corporation (Japan), RWDC Industries (Singapore), Newlight Technologies LLC (US), TianAn Biologic Materials Co., Ltd. (China), and Biomer (Germany).

Research Coverage

This report segments the market for PHA market on the basis of type, production method, application, and region, and provides estimations for the overall value of the market across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisition associated with the market for PHA market.

Key benefits of buying this report

This research report is focused on various levels of analysis - industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the PHA market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

- Market Penetration: Comprehensive information on PHA market offered by top players in the global PHA market
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the PHA market
- Market Development: Comprehensive information about lucrative emerging markets - the report analyzes the markets for PHA market across regions
- Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global PHA market
- Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the PHA market
- Impact of COVID-19 on PHA market

Table of Contents:

1	INTRODUCTION	28
1.1	STUDY OBJECTIVES	28
1.2	MARKET DEFINITION	28
1.2.1	PHA MARKET: INCLUSIONS & EXCLUSIONS	28
1.2.2	PHA: MARKET DEFINITION AND INCLUSIONS, BY TYPE	28
1.2.3	PHA: MARKET DEFINITION AND INCLUSIONS, BY PRODUCTION METHOD	29
1.2.4	PHA: MARKET DEFINITION AND INCLUSIONS, BY APPLICATION	29
1.3	MARKET SCOPE	29
1.3.1	REGIONS COVERED	30
1.3.2	YEARS CONSIDERED	30
1.4	CURRENCY CONSIDERED	30
1.5	UNIT CONSIDERED	31
1.6	STAKEHOLDERS	31
1.7	SUMMARY OF CHANGES	31
2	RESEARCH METHODOLOGY	32

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2.1	RESEARCH DATA	32	
	FIGURE 1	PHA MARKET: RESEARCH DESIGN	32
2.1.1	SECONDARY DATA	33	
2.1.2	PRIMARY DATA	33	
2.1.2.1	Primary interviews: Demand- and Supply-sides	33	
2.1.2.2	Key industry insights	34	
2.1.2.3	Breakdown of primary interviews	34	
2.2	MARKET SIZE ESTIMATION	35	
2.2.1	BOTTOM-UP APPROACH	35	
	FIGURE 2	MARKET SIZE ESTIMATION - APPROACH 1 (SUPPLY-SIDE): COMBINED SHARE OF MAJOR PLAYERS	35
	FIGURE 3	MARKET SIZE ESTIMATION - BOTTOM-UP (SUPPLY-SIDE): REVENUE FROM PHA SALE	36
	FIGURE 4	MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 - BOTTOM-UP (DEMAND-SIDE): PRODUCTS SOLD AND AVERAGE SELLING PRICE	36
2.3	DATA TRIANGULATION	37	
	FIGURE 5	PHA MARKET: DATA TRIANGULATION	37
2.4	GROWTH RATE ASSUMPTIONS/FORECAST	38	
2.4.1	SUPPLY-SIDE	38	
	FIGURE 6	CAGR PROJECTIONS FROM SUPPLY-SIDE	38
2.4.2	DEMAND-SIDE	39	
	FIGURE 7	PROJECTIONS FROM DEMAND-SIDE: DRIVERS AND OPPORTUNITIES	39
2.5	FACTOR ANALYSIS	40	
2.6	ASSUMPTIONS	40	
2.7	LIMITATIONS	41	
2.8	RISK ASSESSMENT	41	
	TABLE 1	PHA MARKET: RISK ASSESSMENT	41
3	EXECUTIVE SUMMARY	42	
	FIGURE 8	SHORT CHAIN LENGTH SEGMENT TO DOMINATE IN 2022	43
	FIGURE 9	PACKAGING & FOOD SERVICES LARGEST APPLICATION	43
	FIGURE 10	EUROPE ACCOUNTED FOR LARGEST SHARE IN 2021	44
4	PREMIUM INSIGHTS	45	
4.1	ATTRACTIVE OPPORTUNITIES IN PHA MARKET	45	
	FIGURE 11	PACKAGING & FOOD SERVICES AND BIOMEDICAL OFFER SIGNIFICANT OPPORTUNITIES	45
4.2	EUROPE PHA MARKET, BY APPLICATION AND COUNTRY	45	
	FIGURE 12	GERMANY LED EUROPE PHA MARKET IN "2021"	45
4.3	PHA MARKET, BY PRODUCTION METHOD	46	
	FIGURE 13	SUGAR FERMENTATION SEGMENT TO DOMINATE BETWEEN 2022 AND 2027	46
4.4	PHA MARKET, BY REGION	46	
	FIGURE 14	EUROPE PROJECTED TO BE FASTEST-GROWING MARKET	46
4.5	PHA MARKET, REGION VS. APPLICATION	47	
	FIGURE 15	PACKAGING AND FOOD SERVICES TO LEAD GROWTH	47
4.6	PHA MARKET ATTRACTIVENESS	47	
	FIGURE 16	ITALY FASTEST-GROWING MARKET BETWEEN 2022 AND 2027	47
5	MARKET OVERVIEW	48	
5.1	INTRODUCTION	48	
5.1.1	EVOLUTION OF PHA	48	
	FIGURE 17	PHA DISCOVERY IN 1925 IN FRANCE	48
5.2	MARKET DYNAMICS	49	

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FIGURE 18 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN PHA MARKET 49

5.2.1 DRIVERS 49

5.2.1.1 Green procurement policies 49

TABLE 2 NORTH AMERICA AND EUROPEAN UNION REGULATIONS 50

5.2.1.2 High availability of renewable and cost-effective raw materials 51

5.2.1.3 Biodegradability driving consumption 51

FIGURE 19 SHORTCOMINGS OF NON-BIODEGRADABLE WASTE DISPOSAL METHODS 52

5.2.1.4 Increasing concerns about human health and safety 52

TABLE 3 CONVENTIONAL PLASTICS: HEALTH CONCERNS 52

5.2.2 RESTRAINTS 54

5.2.2.1 High price compared with conventional polymers 54

5.2.2.2 Performance issues 55

5.2.3 OPPORTUNITIES 55

5.2.3.1 Increasing scope in end-use segments 55

5.2.3.2 Emergence of new raw materials 56

5.2.3.3 Cost reductions through economies of scale 56

5.2.3.4 Cyanobacteria enabling cost reduction 56

5.2.3.5 Growth opportunities in Asia Pacific 57

5.2.4 CHALLENGES 57

5.2.4.1 Manufacturing technology in initial phase 57

5.2.4.2 Underutilization of manufacturing plants 57

TABLE 4 PHA PRODUCTION CAPACITY, BY COMPANY, 2021 (TONS/YEAR) 58

5.2.4.3 Expensive and complex production process 58

5.3 PORTER'S FIVE FORCES ANALYSIS 59

FIGURE 20 PORTER'S FIVE FORCES ANALYSIS: PHA MARKET 59

5.3.1 THREAT OF SUBSTITUTES 59

5.3.2 THREAT OF NEW ENTRANTS 60

5.3.3 BARGAINING POWER OF SUPPLIERS 60

5.3.4 BARGAINING POWER OF BUYERS 60

5.3.5 INTENSITY OF COMPETITIVE RIVALRY 61

TABLE 5 PHA MARKET: PORTER'S FIVE FORCES ANALYSIS 61

5.4 KEY STAKEHOLDERS AND BUYING CRITERIA 61

5.4.1 KEY STAKEHOLDERS IN BUYING PROCESS 61

FIGURE 21 INFLUENCE OF STAKEHOLDERS FOR TOP THREE APPLICATIONS 61

TABLE 6 STAKEHOLDER INFLUENCE IN BUYING PROCESS FOR TOP THREE APPLICATIONS (%) 62

5.4.2 BUYING CRITERIA 62

FIGURE 22 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS 62

TABLE 7 KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS 63

5.5 MACROECONOMIC INDICATORS 63

5.5.1 GDP TRENDS AND FORECAST FOR MAJOR ECONOMIES 64

TABLE 8 FORECAST GDP TRENDS FOR MAJOR ECONOMIES, 2019-2027 (USD BILLION) 64

6 INDUSTRY TRENDS 65

6.1 SUPPLY CHAIN ANALYSIS 65

FIGURE 23 PHA MARKET: SUPPLY CHAIN ANALYSIS 65

6.1.1 RAW MATERIAL 65

6.1.2 FERMENTATION 65

6.1.3 EXTRACTION 65

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6.1.4	END-USE INDUSTRIES	66
6.2	PHA MARKET: REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS	66
	FIGURE 24	REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS
	TABLE 9	PHA MARKET FORECAST SCENARIO, 2019-2027 (USD MILLION)
6.2.1	NON-COVID-19 SCENARIO	66
6.2.2	OPTIMISTIC SCENARIO	67
6.2.3	PESSIMISTIC SCENARIO	67
6.2.4	REALISTIC SCENARIO	67
6.3	PRICING ANALYSIS	67
6.3.1	AVERAGE SELLING PRICES OF APPLICATIONS OF KEY PLAYERS	67
	FIGURE 25	AVERAGE SELLING PRICES OF TOP THREE APPLICATIONS OF KEY PLAYERS
	TABLE 10	AVERAGE SELLING PRICES OF TOP THREE APPLICATIONS OF KEY, USD/KG
6.3.2	PHA AVERAGE SELLING PRICE, BY REGION	68
	FIGURE 26	PHA AVERAGE SELLING PRICE, BY REGION, USD/KG
	TABLE 11	PHA AVERAGE SELLING PRICE, BY REGION (USD/KG)
6.4	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESSES	69
6.4.1	REVENUE SHIFTS AND POCKETS FOR PHA MARKET	69
	FIGURE 27	REVENUE SHIFTS FOR PHA MARKET
6.5	CONNECTED MARKETS: ECOSYSTEM	70
	TABLE 12	PHA MARKET: ECOSYSTEM
	FIGURE 28	PHA MARKET: ECOSYSTEM
6.6	TECHNOLOGY ANALYSIS	71
	FIGURE 29	DIFFERENT SUBSTRATES UTILIZED FOR PHA PRODUCTION
6.6.1	COMMERCIALIZED TECHNOLOGIES	72
	TABLE 13	COMMERCIALIZED AND TO BE COMMERCIALIZED TECHNOLOGIES, TYPE AND PRODUCTION METHOD
6.6.2	PHA PRODUCTION IN BIOREFINERIES	73
6.6.3	YET TO BE COMMERCIALIZED	74
6.6.4	OTHER POSSIBILITIES	75
6.7	CASE STUDY ANALYSIS	75
6.7.1	CASE STUDY: PHA USED TO PRODUCE BIODEGRADABLE STRAWS	75
6.7.2	CASE STUDY: UTILIZATION OF PHA FOR SUSTAINABLE PACKAGING	76
6.7.3	CASE STUDY: USE OF PHA FOR MANUFACTURE OF BIODEGRADABLE SPIRIT BOTTLES	76
6.8	TRADE DATA STATISTICS	76
6.8.1	IMPORT SCENARIO OF PHA	76
	FIGURE 30	IMPORT OF PHA, BY KEY COUNTRIES (2015-2021)
	TABLE 14	IMPORT OF PHA, BY REGION, 2015-2021 (USD THOUSAND)
6.8.2	EXPORT SCENARIO OF PHA	77
	FIGURE 31	EXPORT OF PHA, BY KEY COUNTRIES (2015-2020)
	TABLE 15	EXPORT OF PHA, BY REGION, 2015-2021 (USD THOUSAND)
6.9	REGULATORY LANDSCAPE	78
	TABLE 16	REGULATIONS FOR PHA
6.9.1	REACH	79
6.9.2	EPA	79
6.10	KEY CONFERENCES & EVENTS IN 2022-2023	80
	TABLE 17	PHA MARKETS: LIST OF CONFERENCES & EVENTS
6.11	PATENT ANALYSIS	80
6.11.1	APPROACH	81

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6.11.2	DOCUMENT TYPE	81
FIGURE 32	PATENT PUBLICATION TRENDS FOR PHA MARKET, 2011-2021	81
FIGURE 33	LEGAL STATUS OF PATENTS	82
6.11.3	JURISDICTION ANALYSIS	82
FIGURE 34	MAXIMUM PATENTS FILED BY COMPANIES IN CHINA	82
6.11.4	TOP APPLICANTS	83
FIGURE 35	KANEKA CORPORATION REGISTERED HIGHEST PATENTS BETWEEN 2011 AND 2021	83
TABLE 18	RECENT PATENTS BY KANEKA CORPORATION	83
TABLE 19	RECENT PATENTS BY YIELD10 BIOSCIENCE	84
TABLE 20	RECENT PATENTS BY VEOLIA WATER TECHNOLOGIES	85
TABLE 21	TOP 10 PATENT OWNERS IN US, 2011-2021	86
7	SOURCES AND PROCESSES OF PHA PRODUCTION	87
7.1	GENERAL PRODUCTION PROCESS	87
FIGURE 36	PROCESS FLOW OF PHA PRODUCTION	87
7.2	SUGAR SUBSTRATE OR CARBOHYDRATES FROM PLANTS	87
FIGURE 37	SUGAR SUBSTRATES FOR PHA PRODUCTION	88
7.3	TRIACYLGLYCEROLS	88
7.4	HYDROCARBONS	89
FIGURE 38	HYDROCARBON SUBSTRATES	89
7.5	STRAIN SELECTION	89
TABLE 22	LIST OF BACTERIUM STRAINS AND OUTPUT	90
7.6	BIOPROCESS AND DOWNSTREAM PROCESS	91
7.6.1	FERMENTATION PROCESS	91
7.6.1.1	Discontinuous process	91
7.6.1.1.1	Batch process	91
7.6.1.1.2	Fed-batch process	91
7.6.1.1.3	Fed-batch process with cell recycling	91
7.6.1.1.4	Repeated fed-batch	91
7.6.1.2	Continuous process	91
7.6.1.2.1	Continuous fed-batch process	91
7.6.1.2.2	One-stage chemostat	91
7.6.1.2.3	Two-stage chemostat	92
7.6.1.2.4	Multi-stage chemostat	92
7.6.2	EXTRACTION PROCESS	92
FIGURE 39	EXTRACTION PROCESS FLOW	92
8	PRODUCTION CAPACITY ANALYSIS	93
TABLE 23	CURRENT PRODUCTION CAPACITIES (TON)	93
TABLE 24	UPCOMING PLAYERS	94
TABLE 25	DISCONTINUED OR STALLED PRODUCTION	95
9	POLYHYDROXYALKANOATE (PHA) MARKET, BY TYPE	96
9.1	INTRODUCTION	97
FIGURE 40	SHORT CHAIN LENGTH SEGMENT TO ACCOUNT FOR LARGER SHARE IN 2022	97
TABLE 26	PHA MARKET SIZE, BY TYPE, 2017-2020 (TON)	97
TABLE 27	PHA MARKET SIZE, BY TYPE, 2021-2027 (TON)	98
TABLE 28	PHA MARKET SIZE, BY TYPE, 2017-2020 (USD MILLION)	98
TABLE 29	PHA MARKET SIZE, BY TYPE, 2021-2027 (USD MILLION)	98
9.2	SHORT CHAIN LENGTH	99

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9.2.1 POLYHYDROXYVALERATE (PHV) 99

9.2.1.1 PHV polymers can form single crystals with lamellar 99

9.2.2 P (4HB-CO-3HB) 99

9.2.2.1 4HB and 3HB ratio decide copolymer properties 99

9.2.3 P (3HB-CO-3HV) 99

9.2.3.1 High HV fraction makes polymers more elastic 99

9.2.4 OTHERS 99

9.2.4.1 Utilization as copolymers 99

TABLE 30 SHORT CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2017-2020 (TON) 100

TABLE 31 SHORT CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2021-2027 (TON) 100

TABLE 32 SHORT CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2017-2020 (USD MILLION) 100

TABLE 33 SHORT CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2021-2027 (USD MILLION) 101

9.3 MEDIUM CHAIN LENGTH 101

9.3.1 P (HYDROXYBUTYRATE-CO-HYDROXYOCTANOATE) 101

9.3.1.1 Nodax most common PHA 101

9.3.2 P (3HB-CO-3HV-CO-4HB) 101

9.3.2.1 Suitable for medical applications due to high mechanical strength 101

9.3.3 OTHERS 102

9.3.3.1 Potential use in medical and biotechnology fields 102

TABLE 34 MEDIUM CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2017-2020 (TON) 102

TABLE 35 MEDIUM CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2021-2027 (TON) 102

TABLE 36 MEDIUM CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2017-2020 (USD MILLION) 102

TABLE 37 MEDIUM CHAIN LENGTH PHA MARKET SIZE, BY REGION, 2021-2027 (USD MILLION) 103

10 POLYHYDROXYALKANOATE (PHA) MARKET, BY PRODUCTION METHOD 104

10.1 INTRODUCTION 105

FIGURE 41 SUGAR FERMENTATION PRODUCTION METHOD TO LEAD MARKET 105

TABLE 38 PHA MARKET SIZE, BY PRODUCTION METHOD, 2017-2020 (TON) 105

TABLE 39 PHA MARKET SIZE, BY PRODUCTION METHOD, 2021-2027 (TON) 106

TABLE 40 PHA MARKET SIZE, BY PRODUCTION METHOD, 2017-2020 (USD MILLION) 106

TABLE 41 PHA MARKET SIZE, BY PRODUCTION METHOD, 2021-2027 (USD MILLION) 106

11 POLYHYDROXYALKANOATE (PHA) MARKET, BY APPLICATION 108

11.1 INTRODUCTION 109

FIGURE 42 PACKAGING & FOOD SERVICES SEGMENT TO ACCOUNT FOR LARGEST SHARE OF MARKET 109

TABLE 42 PHA MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 109

TABLE 43 PHA MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 110

TABLE 44 PHA MARKET SIZE, BY APPLICATION, 2017-2020 (USD MILLION) 110

TABLE 45 PHA MARKET SIZE, BY APPLICATION, 2021-2027 (USD MILLION) 110

11.2 PACKAGING & FOOD SERVICES 111

11.2.1 PACKAGING 111

11.2.1.1 Rigid packaging 112

11.2.1.1.1 High impact on rigid packaging segment 112

11.2.1.2 Flexible packaging 112

11.2.1.2.1 Replacement for petroleum-based plastics in flexible packaging 112

11.2.1.3 Others 112

11.2.1.3.1 Loose-fill 112

11.2.1.3.2 Compost bags 112

11.2.2 FOOD SERVICES 112

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- 11.2.2.1 High number of applications 112
- 11.2.2.2 Cups 113
 - 11.2.2.2.1 Biodegradable disposable PHA cups reduce plastic waste 113
 - 11.2.2.3 Trays 113
 - 11.2.2.3.1 Sustainable trays from PHA-based plastics 113
 - 11.2.2.4 Other food services 113
 - 11.2.2.4.1 Containers 113
 - 11.2.2.4.2 Jars 113
- TABLE 46 PHA MARKET SIZE IN PACKAGING & FOOD SERVICES APPLICATION, BY REGION, 2017-2020 (TON) 114
- TABLE 47 PHA MARKET SIZE IN PACKAGING & FOOD SERVICES APPLICATION, BY REGION, 2021-2027 (TON) 114
- TABLE 48 PHA MARKET SIZE IN PACKAGING & FOOD SERVICES APPLICATION, BY REGION, 2017-2020 (USD MILLION) 114
- TABLE 49 PHA MARKET SIZE IN PACKAGING & FOOD SERVICES APPLICATION, BY REGION, 2021-2027 (USD MILLION) 115
- 11.3 BIOMEDICAL 115
 - 11.3.1 SUTURES 116
 - 11.3.1.1 High tensile strength enables manufacture of biodegradable sutures 116
 - 11.3.2 DRUG RELEASE 116
 - 11.3.2.1 Biocompatibility suitable for drug carrier applications 116
 - 11.3.3 OTHER BIOMEDICAL APPLICATIONS 116
 - TABLE 50 PHA MARKET SIZE IN BIOMEDICAL APPLICATION, BY REGION, 2017-2020 (TON) 116
 - TABLE 51 PHA MARKET SIZE IN BIOMEDICAL APPLICATION, BY REGION, 2021-2027 (TON) 116
 - TABLE 52 PHA MARKET SIZE IN BIOMEDICAL APPLICATION, BY REGION, 2017-2020 (USD MILLION) 117
 - TABLE 53 PHA MARKET SIZE IN BIOMEDICAL APPLICATION, BY REGION, 2021-2027 (USD MILLION) 117
- 11.4 AGRICULTURE 118
 - 11.4.1 MULCH FILMS 118
 - 11.4.1.1 Mulch films enable farmers to directly plow fields 118
 - 11.4.2 PLANT POTS 118
 - 11.4.2.1 Plant pots help initial stages of plant growth 118
 - 11.4.3 OTHER AGRICULTURAL APPLICATIONS 118
 - 11.4.3.1 Bins 118
 - 11.4.3.2 Chutes 118
 - 11.4.3.3 Hoppers 118
 - TABLE 54 PHA MARKET SIZE IN AGRICULTURE APPLICATION, BY REGION, 2017-2020 (TON) 119
 - TABLE 55 PHA MARKET SIZE IN AGRICULTURE APPLICATION, BY REGION, 2021-2027 (TON) 119
 - TABLE 56 PHA MARKET SIZE IN AGRICULTURE APPLICATION, BY REGION, 2017-2020 (USD MILLION) 119
 - TABLE 57 PHA MARKET SIZE IN AGRICULTURE APPLICATION, BY REGION, 2021-2027 (USD MILLION) 120
- 11.5 OTHERS 120
 - 11.5.1 WASTEWATER TREATMENT 120
 - 11.5.2 COSMETICS 120
 - 11.5.3 CHEMICAL ADDITIVES 120
 - 11.5.4 3D PRINTING 120
 - TABLE 58 PHA MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2017-2020 (TON) 121
 - TABLE 59 PHA MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2021-2027 (TON) 121
 - TABLE 60 PHA MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2017-2020 (USD MILLION) 121
 - TABLE 61 PHA MARKET SIZE IN OTHER APPLICATIONS, BY REGION, 2021-2027 (USD MILLION) 122
- 12 POLYHYDROXYALKANOATE (PHA) MARKET, BY REGION 123
 - 12.1 INTRODUCTION 124
 - TABLE 62 PHA MARKET SIZE, BY REGION, 2017-2020 (TON) 124

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TABLE 63 PHA MARKET SIZE, BY REGION, 2021-2027 (TON) 124

TABLE 64 PHA MARKET SIZE, BY REGION, 2017-2020 (USD MILLION) 125

TABLE 65 PHA MARKET SIZE, BY REGION, 2021-2027 (USD MILLION) 125

12.2 NORTH AMERICA 125

FIGURE 43 NORTH AMERICA: PHA MARKET SNAPSHOT 126

TABLE 66 MAJOR PHA MANUFACTURERS IN NORTH AMERICA 126

TABLE 67 UPCOMING PHA MANUFACTURERS IN NORTH AMERICA 127

12.2.1 NORTH AMERICA PHA MARKET, BY APPLICATION 127

TABLE 68 NORTH AMERICA: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 127

TABLE 69 NORTH AMERICA: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 127

TABLE 70 NORTH AMERICA: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (USD MILLION) 128

TABLE 71 NORTH AMERICA: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (USD MILLION) 128

12.2.2 NORTH AMERICA PHA MARKET, BY TYPE 128

TABLE 72 NORTH AMERICA: PHA MARKET SIZE, BY TYPE, 2017-2020 (TON) 128

TABLE 73 NORTH AMERICA: PHA MARKET SIZE, BY TYPE, 2021-2027 (TON) 128

TABLE 74 NORTH AMERICA: PHA MARKET SIZE, BY TYPE, 2017-2020 (USD MILLION) 129

TABLE 75 NORTH AMERICA: PHA MARKET SIZE, BY TYPE, 2021-2027 (USD MILLION) 129

12.2.3 NORTH AMERICA PHA MARKET, BY COUNTRY 129

TABLE 76 NORTH AMERICA: PHA MARKET SIZE, BY COUNTRY, 2017-2020 (TON) 129

TABLE 77 NORTH AMERICA: PHA MARKET SIZE, BY COUNTRY, 2021-2027 (TON) 129

TABLE 78 NORTH AMERICA: PHA MARKET SIZE, BY COUNTRY, 2017-2020 (USD MILLION) 130

TABLE 79 NORTH AMERICA: PHA MARKET SIZE, BY COUNTRY, 2021-2027 (USD MILLION) 130

12.2.3.1 US 130

12.2.3.1.1 Stringent production, use, and disposal regulations 130

TABLE 80 US: PHA MARKET SIZE, 2017-2020 130

TABLE 81 US: PHA MARKET SIZE, 2021-2027 131

12.2.3.2 Canada 131

12.2.3.2.1 Proposed ban on single-use plastics to influence market growth 131

TABLE 82 CANADA: PHA MARKET SIZE, 2017-2020 131

TABLE 83 CANADA: PHA MARKET SIZE, 2021-2027 131

12.2.3.3 Mexico 132

12.2.3.3.1 Government initiatives and international investments creating opportunities 132

TABLE 84 MEXICO: PHA MARKET SIZE, 2017-2020 132

TABLE 85 MEXICO: PHA MARKET SIZE, 2021-2027 132

12.3 EUROPE 132

FIGURE 44 EUROPE: PHA MARKET SNAPSHOT 133

TABLE 86 MAJOR PHA MANUFACTURERS IN EUROPE 134

TABLE 87 UPCOMING PHA MANUFACTURERS IN EUROPE 134

12.3.1 EUROPE PHA MARKET, BY APPLICATION 134

TABLE 88 EUROPE: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 134

TABLE 89 EUROPE: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 134

TABLE 90 EUROPE: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (USD MILLION) 135

TABLE 91 EUROPE: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (USD MILLION) 135

12.3.2 EUROPE PHA MARKET, BY TYPE 135

TABLE 92 EUROPE: PHA MARKET SIZE, BY TYPE, 2017-2020 (TON) 135

TABLE 93 EUROPE: PHA MARKET SIZE, BY TYPE, 2021-2027 (TON) 135

TABLE 94 EUROPE: PHA MARKET SIZE, BY TYPE, 2017-2020 (USD MILLION) 136

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TABLE 95 EUROPE: PHA MARKET SIZE, BY TYPE, 2021-2027 (USD MILLION) 136

12.3.3 EUROPE PHA MARKET, BY COUNTRY 136

TABLE 96 EUROPE: PHA MARKET SIZE, BY COUNTRY, 2017-2020 (TON) 136

TABLE 97 EUROPE: PHA MARKET SIZE, BY COUNTRY, 2021-2027 (TON) 137

TABLE 98 EUROPE: PHA MARKET SIZE, BY COUNTRY, 2017-2020 (USD MILLION) 137

TABLE 99 EUROPE: PHA MARKET SIZE, BY COUNTRY, 2021-2027 (USD MILLION) 137

12.3.3.1 Germany 138

12.3.3.1.1 Advanced infrastructure for solid waste management to propel market 138

TABLE 100 GERMANY: PHA MARKET SIZE, 2017-2020 138

TABLE 101 GERMANY: PHA MARKET SIZE, 2021-2027 138

12.3.3.2 UK 138

12.3.3.2.1 Government's aim to achieve zero-waste economy to influence growth 138

TABLE 102 UK: PHA MARKET SIZE, 2017-2020 139

TABLE 103 UK: PHA MARKET SIZE, 2021-2027 139

12.3.3.3 France 139

12.3.3.3.1 Government's initiatives for bio-based economy to drive market 139

TABLE 104 FRANCE: PHA MARKET SIZE, 2017-2020 139

TABLE 105 FRANCE: PHA MARKET SIZE, 2021-2027 139

12.3.3.4 Italy 140

12.3.3.4.1 Demand for eco-friendly packaging solutions to drive market 140

TABLE 106 ITALY: PHA MARKET SIZE, 2017-2020 140

TABLE 107 ITALY: PHA MARKET SIZE, 2021-2027 140

12.3.3.5 Rest of Europe 140

TABLE 108 REST OF EUROPE: PHA MARKET SIZE, 2017-2020 141

TABLE 109 REST OF EUROPE: PHA MARKET SIZE, 2021-2027 141

12.4 ASIA PACIFIC 141

FIGURE 45 ASIA PACIFIC: PHA MARKET SNAPSHOT 142

TABLE 110 MAJOR PHA MANUFACTURERS IN ASIA PACIFIC 142

TABLE 111 UPCOMING PHA MANUFACTURERS IN ASIA PACIFIC 143

12.4.1 ASIA PACIFIC PHA MARKET, BY APPLICATION 143

TABLE 112 ASIA PACIFIC: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (TON) 143

TABLE 113 ASIA PACIFIC: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (TON) 143

TABLE 114 ASIA PACIFIC: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (USD MILLION) 144

TABLE 115 ASIA PACIFIC: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (USD MILLION) 144

12.4.2 ASIA PACIFIC PHA MARKET, BY TYPE 144

TABLE 116 ASIA PACIFIC: PHA MARKET SIZE, BY TYPE, 2017-2020 (TON) 144

TABLE 117 ASIA PACIFIC: PHA MARKET SIZE, BY TYPE, 2021-2027 (TON) 144

TABLE 118 ASIA PACIFIC: PHA MARKET SIZE, BY TYPE, 2017-2020 (USD MILLION) 145

TABLE 119 ASIA PACIFIC: PHA MARKET SIZE, BY TYPE, 2021-2027 (USD MILLION) 145

12.4.3 ASIA PACIFIC PHA MARKET, BY COUNTRY 145

TABLE 120 ASIA PACIFIC: PHA MARKET SIZE, BY COUNTRY, 2017-2020 (TON) 145

TABLE 121 ASIA PACIFIC: PHA MARKET SIZE, BY COUNTRY, 2021-2027 (TON) 145

TABLE 122 ASIA PACIFIC: PHA MARKET SIZE, BY COUNTRY, 2017-2020 (USD MILLION) 146

TABLE 123 ASIA PACIFIC: PHA MARKET SIZE, BY COUNTRY, 2021-2027 (USD MILLION) 146

12.4.3.1 China 147

12.4.3.1.1 Global and local PHA manufacturers to drive market 147

TABLE 124 CHINA: PHA MARKET SIZE, 2017-2020 147

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TABLE 125	CHINA: PHA MARKET SIZE, 2021-2027	147
12.4.3.2	Japan	147
12.4.3.2.1	Biomass-based plastics and biodegradable plastics to fuel market	147
TABLE 126	JAPAN: PHA MARKET SIZE, 2017-2020	148
TABLE 127	JAPAN: PHA MARKET SIZE, 2021-2027	148
12.4.3.3	India	148
12.4.3.3.1	Ban on non-biodegradable plastics to boost market	148
TABLE 128	INDIA: PHA MARKET SIZE, 2017-2020	148
TABLE 129	INDIA: PHA MARKET SIZE, 2021-2027	149
12.4.3.4	Malaysia	149
12.4.3.4.1	Fully automated plant producing biodegradable plastic from palm oil, propelling market	149
TABLE 130	MALAYSIA: PHA MARKET SIZE, 2017-2020	149
TABLE 131	MALAYSIA: PHA MARKET SIZE, 2021-2027	149
12.4.3.5	South Korea	150
12.4.3.5.1	Existing R&D establishments to encourage PHA manufacturers	150
TABLE 132	SOUTH KOREA: PHA MARKET SIZE, 2017-2020	150
TABLE 133	SOUTH KOREA: PHA MARKET SIZE, 2021-2027	150
12.4.3.6	Rest of Asia Pacific	150
TABLE 134	REST OF ASIA PACIFIC: PHA MARKET SIZE, 2017-2020	151
TABLE 135	REST OF ASIA PACIFIC: PHA MARKET SIZE, 2021-2027	151
12.5	REST OF THE WORLD (ROW)	151
12.5.1	REST OF THE WORLD PHA MARKET, BY APPLICATION	151
TABLE 136	REST OF THE WORLD: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (TON)	151
TABLE 137	REST OF THE WORLD: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (TON)	152
TABLE 138	REST OF THE WORLD: PHA MARKET SIZE, BY APPLICATION, 2017-2020 (USD MILLION)	152
TABLE 139	REST OF THE WORLD: PHA MARKET SIZE, BY APPLICATION, 2021-2027 (USD MILLION)	152
12.5.2	REST OF THE WORLD PHA MARKET, BY TYPE	153
TABLE 140	REST OF THE WORLD: PHA MARKET SIZE, BY TYPE, 2017-2020 (TON)	153
TABLE 141	REST OF THE WORLD: PHA MARKET SIZE, BY TYPE, 2021-2027 (TON)	153
TABLE 142	REST OF THE WORLD: PHA MARKET SIZE, BY TYPE, 2017-2020 (USD MILLION)	153
TABLE 143	REST OF THE WORLD: PHA MARKET SIZE, BY TYPE, 2021-2027 (USD MILLION)	153
12.5.3	REST OF THE WORLD PHA MARKET, BY REGION	153
TABLE 144	REST OF THE WORLD: PHA MARKET SIZE, BY REGION, 2017-2020 (TON)	153
TABLE 145	REST OF THE WORLD: PHA MARKET SIZE, BY REGION, 2021-2027 (TON)	154
TABLE 146	REST OF THE WORLD: PHA MARKET SIZE, BY REGION, 2017-2020 (USD MILLION)	154
TABLE 147	REST OF THE WORLD: PHA MARKET SIZE, BY REGION, 2021-2027 (USD MILLION)	154
12.5.3.1	South America	155
12.5.3.1.1	Awareness toward green economy to propel market	155
TABLE 148	SOUTH AMERICA: PHA MARKET SIZE, 2017-2020	155
TABLE 149	SOUTH AMERICA: PHA MARKET SIZE, 2021-2027	155
12.5.3.2	Middle East & Africa	155
12.5.3.2.1	Growing biomedical industry to drive market	155
TABLE 150	MIDDLE EAST & AFRICA: PHA MARKET SIZE, 2017-2020	156
TABLE 151	MIDDLE EAST & AFRICA: PHA MARKET SIZE, 2021-2027	156
13	COMPETITIVE LANDSCAPE	157
13.1	INTRODUCTION	157
13.2	STRATEGIES ADOPTED BY KEY PLAYERS	157

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TABLE 152	OVERVIEW OF STRATEGIES ADOPTED BY KEY PHA MANUFACTURERS	157
13.3	MARKET SHARE ANALYSIS	158
13.3.1	RANKING OF KEY MARKET PLAYERS, 2021	158
FIGURE 46	RANKING OF TOP FIVE PLAYERS IN PHA MARKET, 2021	158
13.3.2	MARKET SHARE OF KEY PLAYERS	159
TABLE 153	PHA MARKET: DEGREE OF COMPETITION	159
FIGURE 47	DANIMER SCIENTIFIC LED PHA MARKET IN 2021	159
13.3.2.1	Danimer Scientific	160
13.3.2.2	Shenzhen Ecomann Biotechnology Co., Ltd	160
13.3.2.3	Kaneka Corporation	160
13.3.2.4	RWDC Industries	160
13.3.2.5	TianAn Biologic Materials Co. Ltd.	160
13.3.3	REVENUE ANALYSIS OF TOP FIVE PLAYERS	161
FIGURE 48	REVENUE ANALYSIS OF KEY COMPANIES FOR LAST FIVE YEARS	161
13.4	COMPANY PRODUCT FOOTPRINT ANALYSIS	162
FIGURE 49	PHA MARKET: COMPANY FOOTPRINT	162
TABLE 154	PHA MARKET: TYPE FOOTPRINT	163
TABLE 155	PHA MARKET: APPLICATION FOOTPRINT	164
TABLE 156	PHA MARKET: COMPANY REGION FOOTPRINT	165
13.5	COMPANY EVALUATION QUADRANT (TIER 1)	166
13.5.1	STARS	166
13.5.2	EMERGING LEADERS	166
FIGURE 50	COMPANY EVALUATION QUADRANT FOR PHA MARKET (TIER 1)	166
13.6	COMPETITIVE BENCHMARKING	167
TABLE 157	PHA MARKET: DETAILED LIST OF KEY STARTUPS/SMES	167
TABLE 158	PHA MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES	167
13.7	STARTUP/SME EVALUATION QUADRANT	168
13.7.1	RESPONSIVE COMPANIES	168
13.7.2	STARTING BLOCKS	168
FIGURE 51	STARTUP/SME EVALUATION QUADRANT FOR PHA MARKET	168
13.8	COMPETITIVE SITUATIONS AND TRENDS	169
13.8.1	NEW PRODUCT LAUNCHES	169
TABLE 159	PHA MARKET: NEW PRODUCT LAUNCHES (2019-2022)	169
13.8.2	DEALS	170
TABLE 160	PHA MARKET: DEALS (2019-2022)	170
13.8.3	OTHER DEVELOPMENTS	172
TABLE 161	PHA MARKET: OTHER DEVELOPMENTS (2019-2022)	172
14	COMPANY PROFILES	173
14.1	MAJOR PLAYERS	173
	(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View)*	
14.1.1	KANEKA CORPORATION	173
TABLE 162	KANEKA CORPORATION: COMPANY OVERVIEW	173
FIGURE 52	KANEKA CORPORATION: COMPANY SNAPSHOT	174
14.1.2	DANIMER SCIENTIFIC	177
TABLE 163	DANIMER SCIENTIFIC: COMPANY OVERVIEW	177
FIGURE 53	DANIMER SCIENTIFIC: COMPANY SNAPSHOT	177
14.1.3	SHENZHEN ECOMANN BIOTECHNOLOGY CO., LTD	180

TABLE 164 SHENZHEN ECOMANN BIOTECHNOLOGY CO., LTD.: COMPANY OVERVIEW 180

14.1.4 RWDC INDUSTRIES 182

TABLE 165 RWDC INDUSTRIES: COMPANY OVERVIEW 182

14.1.5 NEWLIGHT TECHNOLOGIES, INC 185

TABLE 166 NEWLIGHT TECHNOLOGIES, INC: COMPANY OVERVIEW 185

14.1.6 TIANAN BIOLOGIC MATERIALS CO., LTD 188

TABLE 167 TIANAN BIOLOGIC MATERIALS CO., LTD: COMPANY OVERVIEW 188

14.1.7 BIOMER 190

TABLE 168 BIOMER: COMPANY OVERVIEW 190

14.1.8 PHABUILDER 191

TABLE 169 PHABUILDER: COMPANY OVERVIEW 191

14.1.9 TERRAVERDAE BIOWORKS INC. 193

TABLE 170 TERRAVERDAE BIOWORKS INC.: COMPANY OVERVIEW 193

14.1.10 BLUEPHA 195

TABLE 171 BLUEPHA: COMPANY OVERVIEW 195

* Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View might not be captured in case of unlisted companies.

14.2 STARTUP/SME PLAYERS 197

14.2.1 NAFIGATE CORPORATION 197

TABLE 172 NAFIGATE CORPORATION: COMPANY OVERVIEW 197

14.2.2 GENECIS BIOINDUSTRIES INC 197

TABLE 173 GENECIS BIOINDUSTRIES INC.: COMPANY OVERVIEW 197

14.2.3 TEPHA, INC. 198

TABLE 174 TEPHA, INC.: COMPANY OVERVIEW 198

14.2.4 CJ CHEILJEDANG I BIO 198

TABLE 175 CJ CHEILJEDANG I BIO: COMPANY OVERVIEW 198

14.2.5 FULL CYCLE BIOPLASTICS LLC 199

TABLE 176 FULL CYCLE BIOPLASTICS LLC: COMPANY OVERVIEW 199

14.2.6 MANGO MATERIALS 199

TABLE 177 MANGO MATERIALS.: COMPANY OVERVIEW 199

14.2.7 COFCO 200

TABLE 178 COFCO: COMPANY OVERVIEW 200

14.2.8 MEDPHA 200

TABLE 179 MEDPHA: COMPANY OVERVIEW 200

15 ADJACENT AND RELATED MARKETS 201

15.1 INTRODUCTION 201

15.2 LIMITATIONS 201

15.3 BIOPLASTICS & BIOPOLYMERS MARKET 201

15.3.1 MARKET DEFINITION 201

15.3.2 MARKET OVERVIEW 202

15.4 BIOPLASTICS & BIOPOLYMERS MARKET, BY REGION 202

TABLE 180 BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY REGION, 2018-2025 (KILOTON) 202

TABLE 181 BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY REGION, 2018-2025 (USD MILLION) 202

15.4.1 ASIA PACIFIC 203

15.4.1.1 By country 203

TABLE 182 ASIA PACIFIC: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON) 203

TABLE 183 ASIA PACIFIC: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION) 203

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15.4.1.2 By end-use industry 204

TABLE 184 ASIA PACIFIC: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (KILOTON) 204

TABLE 185 ASIA PACIFIC: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (USD MILLION) 204

15.4.2 EUROPE 205

15.4.2.1 By country 205

TABLE 186 EUROPE: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON) 205

TABLE 187 EUROPE: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION) 205

15.4.2.2 By end-use industry 206

TABLE 188 EUROPE: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (KILOTON) 206

TABLE 189 EUROPE: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (USD MILLION) 206

15.4.3 NORTH AMERICA 206

15.4.3.1 By country 206

TABLE 190 NORTH AMERICA: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON) 206

TABLE 191 NORTH AMERICA: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION) 207

15.4.3.2 By end-use industry 207

TABLE 192 NORTH AMERICA: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (KILOTON) 207

TABLE 193 NORTH AMERICA: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (USD MILLION) 208

15.4.4 REST OF THE WORLD 208

15.4.4.1 By country 208

TABLE 194 REST OF THE WORLD: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (KILOTON) 208

TABLE 195 REST OF THE WORLD: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY COUNTRY, 2018-2025 (USD MILLION) 208

15.4.4.2 By end-use industry 209

TABLE 196 REST OF THE WORLD: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (KILOTON) 209

TABLE 197 REST OF THE WORLD: BIOPLASTICS & BIOPOLYMERS MARKET SIZE, BY END-USE INDUSTRY, 2018-2025 (USD MILLION) 209

16 APPENDIX 210

16.1 DISCUSSION GUIDE 210

16.2 KNOWLEDGESTORE: MARKETSDMARKETS' SUBSCRIPTION PORTAL 213

16.3 CUSTOMIZATION OPTIONS 215

16.4 RELATED REPORTS 215

16.5 AUTHOR DETAILS 216

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