

Market Study: Biobased Packaging



World Report (1st edition)

This brochure provides further information on the study “Biobased Packaging - World (1st edition)”

The Market Study in Brief

Are bioplastic bags compostable and can they be disposed of along with organic waste? In some places, there is a passionate debate about how environmentally friendly bioplastics really are. But that doesn't change the fact that more and more films, containers, bottles and cups of all kinds, closures and lids, as well as labels, adhesive tapes and loose-fill packaging chips are being produced from biobased and/or biodegradable plastics. Ceresana expects revenues to increase to around USD 31.4 billion by 2032.

Innovative and dynamic segment of the plastics market

Short-life packaging is by far the most important application for bioplastics, although they are also increasingly found in long-life high-performance products. In the context of bio-economy and sustainable circular economy, biopolymers are associated with the hope of climate protection, non-toxic and environmentally friendly products, but also independence from fossil raw materials and new opportunities for agriculture and economically weak regions. PLA, mostly derived from plant starch, is currently the most important bioplastic on the packaging market with a share of 28%. Packaging made from biobased plastics that are not biodegradable, for example polyethylene and PET made from sugarcane ethanol, follow in second place. Ceresana expects the highest growth for PHA: Revenues generated with these biopolyesters formed by bacteria, are expected to increase by 19.4% by 2032.

Biobased packaging for food, cosmetics and pharmaceuticals

The current market report analyzes the development in the various sales markets. The most important sales market in 2022 was the “food and beverages” area, which accounted

for almost 61% of all packaging. Bioplastics are increasingly needed not only for bread bags and salad freshness films, but also for dairy products, chilled and frozen foods, ready-made meals and convenience foods, spreads, sauces and condiments, bottles and containers in the beverage segment. However, Ceresana expects the highest volume growth in the “cosmetics and pharma” area: 11.4% per year. This includes packaging for shampoos, shower gels, creams, lotions, makeup, liquid soap or other personal care items, but also packaging for pharmaceutical products.

The Study in short:

Chapter 1 analyzes the global market - including forecasts up to 2032: the development of both demand and revenue is given for each world region. In addition, the various packaging types, applications and types are examined individually. Rigid packaging (e.g. bottles, cans and containers) and flexible packaging (bags, sacks, pouches) are covered separately. The following applications for packaging made of bioplastics are considered: Food and beverages, Consumer goods, Cosmetics and pharma, and Other packaging areas. The packaging market is broken down for the various types for Europe, North America, Asia-Pacific and “RoW”: PLA, Starch-based plastics, PHA, Other biodegradable plastics, and Biobased but non-biodegradable plastics.

Chapter 2 considers the 11 most important sales countries individually. In each case, the following are presented: Revenue, demand for the applications, and demand per type.

Chapter 3 provides 54 company profiles of bioplastic packaging manufacturers, e.g. Alpagro, Amcor, DSM, Innovia Films, Mitsubishi Chemical, Mondi, Sealed Air, and Taghleef.

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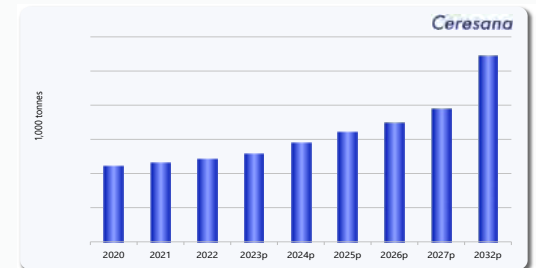
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2.1 Europe

2.1.2 Germany

The demand for bioplastics for packaging in Germany amounted to XXX tonnes in 2022. We expect demand to increase by X % p.a. on average and to reach around X tons by 2032. Revenues generated with bioplastics for packaging amounted to approximately EUR X billion in 2022. We expect an average increase of X % p.a. until 2032.



Graph: Demand in Germany from 2020 to 2032

in 1,000 tonnes	2020	2021	2022	2023p	2024p	2025p	2026p	2027p	2032p	2022-2032
Food & Beverages	X	X	X	X	X	X	X	X	X	X% p.a.
Consumer goods	X	X	X	X	X	X	X	X	X	X% p.a.
Cosmetics & Pharma	X	X	X	X	X	X	X	X	X	X% p.a.
Others	X	X	X	X	X	X	X	X	X	X% p.a.
Total	X	X	X	X	X	X	X	X	X	X% p.a.

Table: Demand in Germany from 2020 to 2032 – split by application

Revenues	2020	2021	2022	2023p	2024p	2025p	2026p	2027p	2032p	2022-2032
Million USD	X	X	X	X	X	X	X	X	X	X% p.a.
Million EUR	X	X	X	X	X	X	X	X	X	X% p.a.

Table: Revenues generated in Germany from 2020 to 2032, million USD and million EUR

in 1,000 tonnes	2020	2021	2022	2023p	2024p	2025p	2026p	2027p	2032p	2022-2032
PLA	X	X	X	X	X	X	X	X	X	X% p.a.
Starch	X	X	X	X	X	X	X	X	X	X% p.a.
PHA	X	X	X	X	X	X	X	X	X	X% p.a.
Other biodegradable	X	X	X	X	X	X	X	X	X	X% p.a.
Non biodegradable	X	X	X	X	X	X	X	X	X	X% p.a.
Total	X	X	X	X	X	X	X	X	X	X% p.a.

Table: Demand in Germany from 2020 to 2032 – split by product

in 1,000 tonnes	2020	2021	2022	2023p	2024p	2025p	2026p	2027p	2032p	2022-2032
Rigid packaging	X	X	X	X	X	X	X	X	X	X% p.a.
Flexible packaging	X	X	X	X	X	X	X	X	X	X% p.a.
Total	X	X	X	X	X	X	X	X	X	X% p.a.

Table: Demand in Germany from 2020 to 2032 – split by type

The application area "Food & beverages" accounted for the largest share of the total demand for bioplastics for packaging in 2022. Demand in the area "Cosmetics & Pharma" is expected to develop most dynamically over the next ten years with a growth rate of X% p.a.

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2 Market Data: Country Profiles

(For each country: Revenues and demand split by applications)

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2.2 Eastern Europe

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2.3 North America

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2.4 South America

- 2.4.1 Brazil
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2.5 Asia-Pacific

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- 2.5.6 Thailand
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3 Company Profiles*

3.1 Western Europe

- Belgium (1 Producer)
- Finland (2)
- France (3)
- Germany (4)
- Portugal (1)
- Spain (2)
- Switzerland (2)
- The Netherlands (1)
- United Kingdom (6)

3.2 North America

- Canada (2)
- Mexico (1)
- USA (7)

3.3 South America

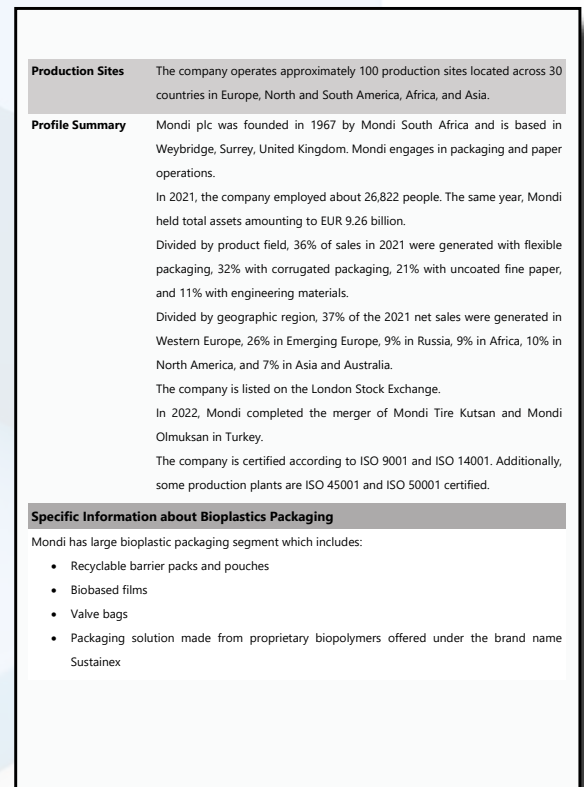
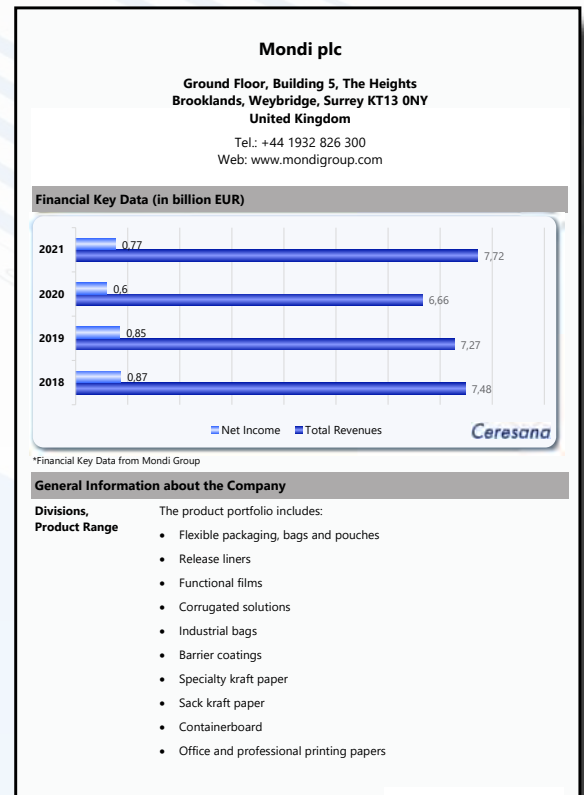
- Brazil (1)
- Colombia (1)

3.4 Asia-Pacific

- Australia (3)
- China (4)
- India (3)
- Indonesia (1)
- Japan (2)
- New Zealand (1)
- South Korea (2)
- Taiwan (1)

3.5 Middle East

- Israel (2)
- United Arab Emirates (1)



*Note: The profiles are assigned to the country in which the company or holding is headquartered. Profiles also include JVs and subsidiaries.

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