

# The Global Market for Natural Biopolymers: PHA, Polysaccharides, Protein, Algal & Fungal, Mycelium and Chitosan

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## Abstracts

The market for biopolymers extracted from agro-food wastes, biomass such as polysaccharides, proteins and lipids, as well as those produced by yeast biomass, algae or by bacterial fermentation, have attracted a significant amount of research and industrial interest over the last few years. Applications have been developed for food packaging, agricultural films, membranes, sustainable clothes etc. and will continue to grow with continued government and industry push for sustainable plastics.

Biopolymers or natural polymers are naturally occurring polymers formed by plants, animals, and microorganisms. In this group naturally occurring and chemically modified polymers are included, such as cellulose, chitin, gelatin, vegetal proteins,  $\beta$ -glucan, dextrane, and kefiran. Biopolymers are directly used as obtained from their sources and are biodegradable; they are also referred to as natural polymers.

Report contents include:

Analysis of overall bioplastics/biopolymers global market in 2021, and forecast to 2031.

Current market conditions, players, end user markets, trends and future outlook.

Market challenges for wider adoption of natural biopolymers.

Global production capacities and consumption, by market. Market forecasts to 2031.

Analysis of natural biopolymers including Polyhydroxyalkanoates (PHA), Polysaccharides, Protein-based biopolymers, algal and fungal based biopolymers, chitin etc.

End user market analysis including packaging, consumer products, automotive, textiles, medical devices, electronics and building materials.

131 companies profiled. Companies profiled include Algix, Mango Materials, Kaneka, Danimer Scientific, Newlight Technologies, Tianan Biologic, Eranova, Loliware LLC, Uluu, Notpla, Oimo, Bolt Threads, Bio Fab NZ, Ecovative Design LLC and many more.

## Contents

### 1 RESEARCH METHODOLOGY

### 2 BIO-POLYMERS AND BIO-PLASTICS

#### 2.1 The global plastics market

##### 2.1.1 Global production

##### 2.1.2 The importance of plastic

##### 2.1.3 Issues with plastics use

##### 2.1.4 Market trends

##### 2.1.5 Bio-based plastics global production

##### 2.1.6 Main bio-plastics producers and global production capacities

###### 2.1.6.1 Producers

###### 2.1.6.2 By biobased and sustainable plastic type

###### 2.1.6.3 By region

##### 2.1.7 Global demand for bio-based and sustainable plastics 2020, by market

##### 2.1.8 Impact of COVID-19 crisis on the bioplastics market and future demand

##### 2.1.9 Challenges for the biobased and sustainable plastics market

#### 2.2 Bio-based or renewable plastics

##### 2.2.1 Drop-in bio-based plastics

##### 2.2.2 Novel bio-based plastics

#### 2.3 Biodegradable and compostable plastics

##### 2.3.1 Biodegradability

##### 2.3.2 Compostability

#### 2.4 Advantages and disadvantages

#### 2.5 Types of Bio-based and/or Biodegradable Plastics

#### 2.6 Market leaders by biobased and/or biodegradable plastic types

### 3 THE GLOBAL NATURAL BIOPOLYMERS/BIOPLASTICS MARKET

#### 3.1 Polyhydroxyalkanoates (PHA)

##### 3.1.1 Types

##### 3.1.2 Market analysis

##### 3.1.3 Commercially available PHAs

##### 3.1.4 Markets for PHAs

##### 3.1.5 Producers

#### 3.2 Polysaccharides

##### 3.2.1 Microfibrillated cellulose (MFC)

- 3.2.1.1 Market analysis
- 3.2.1.2 Producers
- 3.2.2 Cellulose nanocrystals
  - 3.2.2.1 Market analysis
  - 3.2.2.2 Producers
- 3.2.3 Cellulose nanofibers
  - 3.2.3.1 Market analysis
  - 3.2.3.2 Producers
- 3.3 Protein-based bioplastics
  - 3.3.1 Types, applications and producers
- 3.4 Algal and fungal
  - 3.4.1 Algal
    - 3.4.1.1 Advantages
    - 3.4.1.2 Production
    - 3.4.1.3 Commercialization
  - 3.4.2 Mycelium
    - 3.4.2.1 Properties
    - 3.4.2.2 Applications
    - 3.4.2.3 Commercialization
- 3.5 Chitosan
  - 3.5.1 Properties
  - 3.5.2 Applications
- 3.6 Market segmentation of natural biopolymers/bioplastics
  - 3.6.1 Packaging
  - 3.6.2 Consumer products
  - 3.6.3 Automotive
  - 3.6.4 Textiles
  - 3.6.5 Electronics
  - 3.6.6 Building materials
  - 3.6.7 Agriculture and horticulture

## **4 NATURAL BIOPOLYMERS AND BIOPLASTICS COMPANY PROFILES 76 (131 COMPANY PROFILES)**

## **5 REFERENCES**

## Tables

### TABLES

Table 1. Issues related to the use of plastics.

Table 2. Market drivers and trends in bio-based products.

Table 3. Global production capacities of biobased and sustainable plastics 2018-2031, in 1,000 tons.

Table 4. Global production capacities, by producers.

Table 5. Global production capacities of biobased and sustainable plastics 2019-2031, by type, in 1,000 tons.

Table 6. Global production capacities of biobased and sustainable plastics 2019-2025, by region, tons.

Table 7. Type of biodegradation.

Table 8. Advantages and disadvantages of biobased plastics compared to conventional plastics.

Table 9. Types of Bio-based and/or Biodegradable Plastics, applications.

Table 10. Market leader by Bio-based and/or Biodegradable Plastic types.

Table 11. Types of PHAs and properties.

Table 12. Polyhydroxyalkanoates (PHA) market analysis.

Table 13. Commercially available PHAs.

Table 14. Markets and applications for PHAs.

Table 15. Polyhydroxyalkanoates (PHA) producers.

Table 16. Microfibrillated cellulose (MFC) market analysis.

Table 17. Leading MFC producers and capacities.

Table 18. Cellulose nanocrystals analysis.

Table 19: Cellulose nanocrystal production capacities and production process, by producer.

Table 20. Cellulose nanofibers market analysis.

Table 21. CNF production capacities (by type, wet or dry) and production process, by producer, metric tonnes.

Table 22. Types of protein based-bioplastics, applications and companies.

Table 23. Types of algal and fungal based-bioplastics, applications and companies.

Table 24. Overview of alginate-description, properties, application and market size.

Table 25. Companies developing algal-based bioplastics.

Table 26. Overview of mycelium fibers-description, properties, drawbacks and applications.

Table 27. Companies developing mycelium-based bioplastics.

Table 28. Overview of chitosan-description, properties, drawbacks and applications.

Table 29. Granbio Nanocellulose Processes.

Table 30. Lactips plastic pellets.

Table 31. Oji Holdings CNF products.

## Figures

### FIGURES

Figure 1. Global plastics production 1950-2018, millions of tons.

Figure 2. Total global production capacities for biobased and sustainable plastics, all types, 000 tons.

Figure 3. Global production capacities of bioplastics 2018-2031, in 1,000 tons by biodegradable/non-biodegradable types.

Figure 4. Global production capacities of biobased and sustainable plastics in 2019-2031, by type, in 1,000 tons.

Figure 5. Global production capacities of bioplastics in 2019-2025, by type.

Figure 6. Global production capacities of bioplastics in 2030, by type.

Figure 7. Global production capacities of biobased and sustainable plastics 2020.

Figure 8. Global production capacities of biobased and sustainable plastics 2025.

Figure 9. Current and future applications of biobased and sustainable plastics.

Figure 10. Global demand for biobased and sustainable plastics by end user market, 2020.

Figure 11. Global production capacities for biobased and sustainable plastics by end user market 2019-2031, tons.

Figure 12. Challenges for the biobased and sustainable plastics market.

Figure 13. Coca-Cola PlantBottle®.

Figure 14. Interrelationship between conventional, bio-based and biodegradable plastics.

Figure 15. PHA family.

Figure 16. BLOOM masterbatch from Algix.

Figure 17. Typical structure of mycelium-based foam.

Figure 18. Commercial mycelium composite construction materials.

Figure 19. Global market demand for natural biopolymers/bioplastics by end user market 2019-2031, 1,000 tons.

Figure 20. PHA bioplastics products.

Figure 21. Global market demand for natural biopolymers/bioplastics in packaging 2019-2031, 1,000 tons.

Figure 22. Global market demand for natural biopolymers/bioplastics in consumer products 2019-2031, 1,000 tons.

Figure 23. Global market demand for natural biopolymers/bioplastics in automotive 2019-2031, 1,000 tons.

Figure 24. Global market demand for natural biopolymers/bioplastics in textiles 2019-2031, 1,000 tons.

Figure 25. Global market demand for natural biopolymers/bioplastics in electronics 2019-2031, 1,000 tons.

Figure 26. Global market demand for natural biopolymers/bioplastics in building materials 2019-2031, 1,000 tons.

Figure 27. Biodegradable mulch films.

Figure 28. Global market demand for natural biopolymers/bioplastics in agriculture 2019-2031, 1,000 tons.

Figure 29. Algiknit yarn.

Figure 30. Amadou leather shoes.

Figure 31. Anpoly cellulose nanofiber hydrogel.

Figure 32. MEDICELLU™.

Figure 33. Beyond Leather Materials product.

Figure 34. nanoforest-S.

Figure 35. nanoforest-PDP.

Figure 36. nanoforest-MB.

Figure 37. CuanSave film.

Figure 38. ELLEX products.

Figure 39. CNF-reinforced PP compounds.

Figure 40. Kirekira! toilet wipes.

Figure 41. Mushroom leather.

Figure 42. Filler Bank CNC products.

Figure 43. Cellulose Nanofiber (CNF) composite with polyethylene (PE).

Figure 44. PHA production process.

Figure 45. Cutlery samples (spoon, knife, fork) made of nano cellulose and biodegradable plastic composite materials.

Figure 46. Non-aqueous CNF dispersion 'Senaf' (Photo shows 5% of plasticizer).

Figure 47. CNF gel.

Figure 48. Block nanocellulose material.

Figure 49. CNF products developed by Hokuetsu.

Figure 50. Marine leather products.

Figure 51. Chitin nanofiber product.

Figure 52. Marusumi Paper cellulose nanofiber products.

Figure 53. FibriMa cellulose nanofiber powder.

Figure 54. Cellulomix production process.

Figure 55. Nanobase versus conventional products.

Figure 56. MOGU-Wave panels.

Figure 57. CNF slurries.

Figure 58. Range of CNF products.

Figure 59. Reishi.



Figure 60. Nippon Paper Industries' adult diapers.

Figure 61. Compostable water pod.

Figure 62. Leather made from leaves.

Figure 63. Nike shoe with beLEAF™.

Figure 64. CNF clear sheets.

Figure 65. Oji Holdings CNF polycarbonate product.

Figure 66. XCNF.

Figure 67. CNF insulation flat plates.

Figure 68. Manufacturing process for STARCEL.

Figure 69. Lyocell process.

Figure 70. North Face Spiber Moon Parka.

Figure 71. Spider silk production.

Figure 72. 2 wt.% CNF suspension.

Figure 73. BiNF-i-s Dry Powder.

Figure 74. BiNF-i-s Dry Powder and Propylene (PP) Complex Pellet.

Figure 75. Silk nanofiber (right) and cocoon of raw material.

Figure 76. T?mtex leather alternative.

Figure 77. Vegea production process.

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