

Benchmarking of Lactic Acid and Polylactic Acid in China

https://marketpublishers.com/r/B16287A8D70EN.html

Date: January 2015

Pages: 73

Price: US\$ 14,040.00 (Single User License)

ID: B16287A8D70EN

Abstracts

Hot topic of lactic acid?

In recent two years, the development of lactic acid (LA) and polylactic acid (PLA) turned to better than before with the recovery of market economy and enterprises in China strengthened the technology innovation in LA's quality. The key points of Notice on Organizing and Implementing 2014 Bio-based Material Special Program of General office of the National Development and Reform Commission, Ministry of Finance were as follows:

- 1. Pushed by demand: application of bio-based materials, product demonstration Development of food packaging materials, disposable tableware, hotel biodegradable consumable, shopping bags and garbage bags and other bio based plastics products scale production and Application.
- 2. Pushed by production: bio-based materials, the construction of industry cluster To support the production line construction of 5,000 t/a of L-lactic acid and D-lactic acid, and 50,000 t/a PLA.

In the premise of gradual promotion of LA production technology and the government attaches great importance to biodegradable materials, PLA industry also keep developing. But extending the domestic consumption market and getting rid of the technology barriers of production will be the future task.

Background:

Although the Policy on Limiting the Production, Sale and Use of Plastic Bags started to implement from the beginning of 2008, it is no hardness requirements for the actual



consumption. In 2014, LA was widely used in different aspects, but bio-based materials'like PLA was not. With the support from the Chinese government, the market of LA and PLA is still facing chances and challenges.

What to report:

Firstly, it jointly analyzed the production and consumption situation of both LA and PLA and analyzed the main producers in China in detail. And then, it undertook the cost analysis to the representative manufacturers. Lastly, it attached the main producers'profile.

Forecast:

Here forecast the production and consumption of LA and PLA from 2015 to 2019.



Contents

1 EXECUTIVE SUMMARY

2 METHODOLOGY

3 MARKET OVERVIEW

- 3.1 Policies and regulations on bioplastics in China
- 3.2 Market key drivers in China
- 3.3 Hindrances to the development of polylactic acid industry in China
- 3.4 Market situation
 - 3.4.1 Lactic acid market situation
 - 3.4.2 Polylactic acid market situation

4 PRODUCTION SITUATION IN CHINA, 2014

- 4.1 Producers situation of lactic acid
- 4.2 Producers situation of polylactic acid
- 4.3 Potential polylactic acid producers
- 4.4 Raw material
 - 4.4.1 Raw material supply, 2013
 - 4.4.2 Raw material cost
- 4.5 Product quality evaluation of polylactic acid

5 PRICE

- 5.1 Ex-works price of lactic acid
- 5.2 Ex-works price of polylactic acid

6 COMPETITIVE ANALYSIS OF KEY POLYLACTIC ACID PRODUCERS

7 POLYLACTIC ACID CONSUMPTION IN CHINA

- 7.1 Consumption pattern, 2014
- 7.2 Major end users situation in China, 2013
 - 7.2.1 Plastic commodity
 - 7.2.2 Nonwoven fabrics
 - 7.2.3 Pharmaceuticals



8 TECHNOLOGY

- 8.1 Current technology of each stage from lactic acid to polylactic acid
- 8.2 Future technology of each stage from lactic acid to polylactic acid
- 8.3 Outline of production process

9 PRODUCTION COST

- 9.1 Production cost of lactic acid producers
 - 9.1.1 Henan Jindan Lactic Acid Technology Co., Ltd.
 - 9.1.2 Anhui COFCO Biochemical & Galactic Lactic Acid Co., Ltd.
 - 9.1.3 Yancheng Haijianuo Biological Engineering Co., Ltd.
- 9.2 Production cost of polylactic acid producers
 - 9.2.1 Zhejiang Hisun Biomaterials Co., Ltd.
 - 9.2.2 Nantong Jiuding Biological Engineering Co., Ltd.
 - 9.2.3 Shanghai Tong-jie-liang Biomaterials Co., Ltd.
 - 9.2.4 Shenzhen BrightChina Industrial Co., Ltd.

10 CONCLUSION

11 COMPANY PROFILE

- 11.1 Zhejiang Hisun Biomaterials Co., Ltd.
- 11.2 Shanghai Tong-jie-liang Biomaterials Co., Ltd.
- 11.3 Shenzhen BrightChina Industrial Co., Ltd.
- 11.4 Nantong Jiuding Biological Engineering Co., Ltd.
- 11.5 Henan Jindan Lactic Acid Technology Co., Ltd.
- 11.6 Anhui COFCO Biochemical & Galactic Lactic Acid Co., Ltd.
- 11.7 Yancheng Haijianuo Biological Engineering Co., Ltd.
- 11.8 Musashino Chemical (China) Co., Ltd.
- 11.9 Wuhan Sanjiang Space Gude Biotech Co., Ltd.



List Of Tables

LIST OF TABLES

	Table 2	1 Major	ajor abbreviations	s in	this	repo
--	---------	---------	--------------------	------	------	------

- Table 2-2 USD/RMB exchange, 2004-2014
- Table 3.1-1 Policies on bioplastics'production in China, 2006-2014
- Table 3.1-2 Policy about bioplastics market demand in China, 1999-2014
- Table 3.2-1 Global demand for biodegradable materials and PLA, 2007–2014
- Table 3.4.1-1 Export volume and price of LA in China, 2008-Nov. 2014
- Table 3.4.1-2 Import volume and price of LA in China, 2008-Nov. 2014
- Table 3.4.2-1 Export volume and price of PLA in China, 2007-Oct. 2014
- Table 3.4.2-2 Import volume and price of PLA in China, 2007-Oct. 2014
- Table 3.4.2-3 Status of PLA Industry, 2014
- Table 4.1-1 Basic information of major LA producers in China, 2014
- Table 4.1-2 Production information of major LA producers in China, 2013 and 2014
- Table 4.2-1 PLA producers'basic information in China, 2014
- Table 4.2-2 PLA producers' production information in China, 2013 and 2014
- Table 4.2-3 Reasons for the major PLA producers to enter PLA industry
- Table 4.2-4 Reasons for stopping PLA business of some companies, 2014
- Table 4.4.1-1 Output and planting area of corn in China, 2007-2013
- Table 4.4.2-1 Raw material average cost of major LA producers in China, 2014
- Table 4.4.2-2 Raw material average cost of major PLA producers in China, 2014
- Table 4.5-1 PLA quality level of major PLA producers in China, 2014
- Table 4.5-2 Quality indexes of plastic grade PLA of main producers in China, 2014
- Table 5.1-1 Ex-works average price of LA of main producers in China, June 2014
- Table 5.2-1 Ex-works average price of PLA of main producers in China, Dec. 2014
- Table 6-1 Differentiation point and strength analysis of the PLA manufacturers in China, Dec. 2014
- Table 8.3-1 Comparison of technology of main PLA manufacturers in China, 2014
- Table 9.1.1-1 Estimated average raw material cost of 90% FG LA in Henan Jindan, 2014
- Table 9.1.1-2 Estimated average manufacturing cost of 90% FG LA in Henan Jindan, 2014
- Table 9.1.1-3 Estimated average management cost of 90% FG LA in Henan Jindan, 2014
- Table 9.1.1-4 Estimated average production cost of 90% FG LA in Henan Jindan, 2014
- Table 9.1.2-1 Estimated average raw material cost of 90% FG LA in Anhui B&G, 2014
- Table 9.1.2-2 Estimated average manufacturing cost of 90% FG LA in Anhui B&G, 2014



- Table 9.1.2-3 Estimated average management cost of 90% FG LA in Anhui B&G, 2014
- Table 9.1.2-4 Estimated average production cost of 90% FG LA in Anhui B&G, 2014
- Table 9.1.3-1 Estimated average raw material cost of 90% FG LA in Yancheng Haijianuo, 2014
- Table 9.1.3-2 Estimated average manufacturing cost of 90% FG LA in Yancheng Haijianuo, 2014
- Table 9.1.3-3 Estimated average management cost of 90% FG LA in Yancheng Haijianuo, 2014
- Table 9.1.3-4 Estimated average production cost of 90% FG LA in Yancheng Haijianuo, 2014
- Table 9.2.1-1 Estimated average raw material cost of PLA in Zhejiang Hisun, 2014
- Table 9.2.1-2 Estimated average manufacturing cost of PLA in Zhejiang Hisun, 2014
- Table 9.2.1-3 Estimated average management cost of PLA in Zhejiang Hisun, 2014
- Table 9.2.1-4 Estimated average production cost of PLA in Zhejiang Hisun, 2014
- Table 9.2.2-1 Estimated average raw material cost of PLA in Nantong Jiuding, 2014
- Table 9.2.2-2 Estimated average manufacturing cost of PLA in Nantong Jiuding, 2014
- Table 9.2.2-3 Estimated average management cost of PLA in Nantong Jiuding, 2014
- Table 9.2.2-4 Estimated average production cost of PLA in Nantong Jiuding, 2014
- Table 9.2.3-1 Estimated average raw material cost of PLA in Shanghai Tong-jie-liang, 2014
- Table 9.2.3-2 Estimated average manufacturing cost of PLA in Shanghai Tong-jie-liang, 2014
- Table 9.2.3-3 Estimated average management cost of PLA in Shanghai Tong-jie-liang, 2014
- Table 9.2.3-4 Estimated average production cost of PLA in Shanghai Tong-jie-liang, 2014
- Table 9.2.4-1 Estimated average raw material cost of PLA in Shenzhen BrightChina, 2014
- Table 9.2.4-2 Estimated average manufacturing cost of PLA in Shenzhen BrightChina, 2014
- Table 9.2.4-3 Estimated average management cost of PLA in Shenzhen BrightChina, 2014
- Table 9.2.4-4 Estimated average production cost of PLA in Shenzhen BrightChina, 2014
- Table 11.1-1 Product & sales of PLA in Zhejiang Hisun, 2014
- Table 11.3-1 Brief info of Shenzhen BrightChina's five subsidiaries in China, 2014
- Table 11.3-2 Product & sales of PLA in Shenzhen BrightChina, 2014
- Table 11.8-1 Comparision of quality between Musashino China and Henan Jindan



List Of Figures

LIST OF FIGURES

Figure 3.4.1-1 LA	production in	China.	2008-201	14
-------------------	---------------	--------	----------	----

Figure 3.4.1-2 Estimated supply and demand of LA in China, 2015-2019

Figure 3.4.2-1 PLA production in China, 2008-2014

Figure 3.4.2-2 Estimated supply and demand of PLA in China, 2015-2019

Figure 4.4.1-1 Glucose production in China, 2008-2013

Figure 7.1-1 Consumption pattern of LA in China, 2014

Figure 7.1-2 Consumption pattern of PLA in China, 2014

Figure 7.2.1-1 Output of plastic in primary forms in China, 2004-2013

Figure 7.2.2-1 Nonwoven fabrics output in China, 2009-2013

Figure 7.2.3-1 Pharmaceutical output in China, 2004-2013

Figure 8.1-1 Polymerization routes to PLA

Figure 8.1-2 Process of direct condensation of LA

Figure 8.1-3 Process of ring-opening polymerization of the cyclic lactide dimer

Figure 8.3-1 Technology outline of LA of Henan Jindan

Figure 8.3-2 Technology outline of LA of Anhui B&G

Figure 8.3-3 Technology outline of LA of Yancheng Haijianuo

Figure 8.3-4 Technology outline of PLA of Zhejiang Hisun

Figure 8.3-5 Technology outline of PLA of Nantong Jiuding

Figure 8.3-6 Technology outline of PLA of Shanghai Tong-jie-liang

Figure 8.3-7 Technology outline of Shenzhen BrightChina

COMPANIES MENTIONED

Henan Jindan Lactic Acid Technology Co., Ltd., Anhui COFCO Biochemical & Galactic Lactic Acid Co., Ltd., Yancheng Haijianuo Biological Engineering Co., Ltd.



I would like to order

Product name: Benchmarking of Lactic Acid and Polylactic Acid in China

Product link: https://marketpublishers.com/r/B16287A8D70EN.html

Price: US\$ 14,040.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/B16287A8D70EN.html