

Global Polybenzimidazoles Market Research Report 2016

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Abstracts

This report studies Polybenzimidazoles in Global market, especially in North America, Europe, China, Japan, Taiwan and India, focuses on top manufacturers in global market, with capacity, production, price, revenue and market share for each manufacturer, covering

Chomarat North America

Engineered Fibers Technology LLC

eSpin Technologies Inc.

EY Technologies

Fluor Corporation

Zhoushan Hikong Biotechnology Co., Ltd.

Changzhou Hengda Biotechnology Co., Ltd.

Texonic

YF International BV

Akshar Plastic Inc

Amco Polymers

Chevron Chemical

PBI Performance Products, Inc.

Bayer MaterialScience LLC

Tradepro, Inc.

Market Segment by Regions, this report splits Global into several key Regions, with production, consumption, revenue, market share and growth rate of Polybenzimidazoles in these regions, from 2011 to 2021 (forecast), like

North America

China

Europe

Japan

Taiwan

India

Row

Split by Product Types, with production, revenue, price, market share and growth rate of each type, can be divided into

Protective Apparel

Membranes

Molded Resin

Fuel Cell Electrolyte

Asbestos Replacement

Split by applications, this report focuses on consumption, market share and growth rate of Polybenzimidazoles in each application, can be divided into

Fire Service Department

Law Enforcement Department

Industrial Department

Military Department

Aerospace Department

Aviation Department

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1 Polybenzimidazoles Market Overview

1.1 Product Overview and Scope of Polybenzimidazoles

Polybenzimidazole (PBI, short for poly[2,2'-(m-phenylene)-5,5'-bisbenzimidazole]) is material with a very high melting point. It has exceptional thermal and chemical stability and does not readily ignite. It was first discovered by American polymer chemist Carl Shipp Marvel in the pursuit of new materials with superior stability, retention of stiffness,

toughness at elevated temperature. Due to its high stability, polybenzimidazole is used to fabricate high-performance Fire Service Department such as firefighter? gear, astronaut space suits, high temperature protective gloves, welders?apparel and aircraft wall fabrics. In recent years, polybenzimidazole found its application as a membrane in fuel cells.

Figure Picture of Polybenzimidazoles

Source: QYR Chemical Product Research Center, Dec. 2016

1.2 Polybenzimidazoles Segment by Types

1.2.1 Global Production Market Share of Polybenzimidazoles by Types in 2015

Figure Global Production Market Share of Polybenzimidazoles by Types in 2015

Source: QYR Chemical Product Research Center, Dec. 2016

Table Classification of Polybenzimidazoles

Types Feature Description

- 1
- 2
- 3

Source: QYR Chemical Product Research Center, Dec. 2016

1.2.2 Protective Apparel

Figure Product Picture of Protective Apparel

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Protective Apparel

Manufacturers Location of Manufacturing Bases/Factories

- 1
- 2
- 3
- ?

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.2.3 Membranes

Figure Product Picture of Membranes

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Membranes

Manufacturers Location of Manufacturing Bases/Factories

- 1
- 2
- 3
- ?

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.2.4 Molded Resin

Figure Product Picture of Molded Resin

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Molded Resin

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.2.5 Fuel Cell Electrolyte

Figure Product Picture of Fuel Cell Electrolyte

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Fuel Cell Electrolyte

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.2.6 Asbestos Replacement

Figure Product Picture of Asbestos Replacement

Source: QYR Chemical Product Research Center, Dec. 2016

Table Major Manufacturers of Asbestos Replacement

Manufacturers Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR Chemical Product Research Center, Dec. 2016

1.3 Polybenzimidazoles Segment by Applications

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Table Polybenzimidazoles Consumption Market Share by Applications in 2015

Source: QYR Chemical Product Research Center, Dec. 2016

Table Applications of Polybenzimidazoles

Applications Feature Description

1

2

3

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.2 Fire Service Department

Fire Service Department

Figure Fire Service Department Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.3 Law Enforcement Department

Law Enforcement Department

Figure Law Enforcement Department Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.4 Industrial Department

Industrial Department

Figure Industrial Department Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.5 Military Department

Military Department

Figure Military Department Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.6 Aerospace Department

Aerospace Department

Figure Aerospace Department Examples

Source: QYR Chemical Product Research Center, Dec. 2016

1.3.7 Aviation Department

Aerospace Department

Figure Aviation Department Examples

Source: QYR Chemical Product Research Center, Dec. 2016

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Source: QYR Chemical Product Research Center, Dec. 2016

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Source: QYR Chemical Product Research Center, Dec. 2016

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Capacity 2015 2016

Chomarat North America

Engineered Fibers Technology LLC

eSpin Technologies Inc.

EY Technologies

Fluor Corporation

?

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Capacity Market Share of Key Manufacturers (2015 and 2016)

Capacity 2015 2016

Chomarat North America

Engineered Fibers Technology LLC

eSpin Technologies Inc.

EY Technologies

Fluor Corporation

?

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure Global Polybenzimidazoles Capacity of Key Manufacturers in 2015

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure Global Polybenzimidazoles Capacity of Key Manufacturers in 2016

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Production of Key Manufacturers (2015 and 2016)

Production 2015 2016

Chomarat North America

Engineered Fibers Technology LLC

eSpin Technologies Inc.

EY Technologies

Fluor Corporation

?

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Production Share by Manufacturers (2015 and 2016)

Production Share 2015 2016

Chomarat North America

Engineered Fibers Technology LLC

?

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Polybenzimidazoles Production Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure 2016 Polybenzimidazoles Production Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.2 Global Polybenzimidazoles Revenue and Share by Manufacturers (2015 and 2016)

Table Global Polybenzimidazoles Revenue (Million USD) by Manufacturers (2015 and 2016)

Revenue 2015 2016

Chomarat North America

Engineered Fibers Technology LLC

?

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Revenue Share by Manufacturers (2015 and 2016)

Revenue Share 2015 2016

Chomarat North America

Engineered Fibers Technology LLC

?

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table 2015 Global Polybenzimidazoles Revenue Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table 2016 Global Polybenzimidazoles Revenue Share by Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.3 Global Polybenzimidazoles Average Price by Manufacturers (2015 and 2016)

Table Global Market Polybenzimidazoles Average Price of Key Manufacturers (2015 and 2016)

2015 2016

Chomarat North America

Engineered Fibers Technology LLC

?

Total

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure Global Market Polybenzimidazoles Average Price of Key Manufacturers in 2015

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.4 Manufacturers Polybenzimidazoles Manufacturing Base Distribution, Sales Area, Product Types

Table Manufacturers Polybenzimidazoles Manufacturing Base Distribution and Sales Area

Manufacturing Base Distribution Sales Area

Chomarat North America

Engineered Fibers Technology LLC

?

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Table Manufacturers Polybenzimidazoles Product Types

Product Types

Chomarat North America

Engineered Fibers Technology LLC

?

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.5 Polybenzimidazoles Market Competitive Situation and Trends?

2.5.1 Polybenzimidazoles Market Concentration Rate

2.5.2 Polybenzimidazoles Market Share of Top 3 and Top 5 Manufacturers

Figure Polybenzimidazoles Market Share of Top 3 Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

Figure Polybenzimidazoles Market Share of Top 5 Manufacturers

Source: Above companies; QYR Chemical Product Research Center, Dec. 2016

2.5.3 Mergers & Acquisitions, Expansion

3 Global Polybenzimidazoles Capacity, Production, Revenue (Value) by Regions

(2011-2016)

3.1 Global Polybenzimidazoles Capacity and Market Share by Regions (2011-2016)

Table Global Polybenzimidazoles Capacity by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global Polybenzimidazoles Capacity Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global Polybenzimidazoles Capacity Market Share by Regions (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Global Polybenzimidazoles Capacity Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

3.2 Global Polybenzimidazoles Production and Market Share by Regions (2011-2016)

Table Global Polybenzimidazoles Production by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global Polybenzimidazoles Production and Market Share by Regions
(2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global Polybenzimidazoles Production Market Share by Regions (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Global Polybenzimidazoles Production Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

3.3 Global Polybenzimidazoles Revenue (Value) and Market Share by Regions
(2011-2016)

Table Global Polybenzimidazoles Revenue by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Revenue Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China
Japan
Taiwan
India
Row
ROW
Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table 2015 Global Polybenzimidazoles Revenue Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

3.4 Global Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Global Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity
Production
Capacity Utilization Rate
Revenue
Price
Gross Profit
Cost
Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.5 North America Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table North America Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity
Production
Capacity Utilization Rate
Revenue
Price
Gross Profit
Cost
Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.6 Europe Polybenzimidazoles Capacity, Production, Revenue, Price and Gross

Margin (2011-2016)

Table Europe Polybenzimidazoles Capacity, Production, Revenue, Price and Gross

Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.7 China Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table China Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.8 Japan Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Japan Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.9 Taiwan Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Taiwan Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.10 India Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table India Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

3.11 Row Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Row Polybenzimidazoles Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

2011 2012 2013 2014 2015 2016

Capacity

Production

Capacity Utilization Rate

Revenue

Price

Gross Profit

Cost

Gross Margin

Source: QYR Chemical Product Research Center, Dec. 2016

4 Global Polybenzimidazoles Supply (Production), Consumption, Export, Import by Regions (2011-2016)

4.1 Global Polybenzimidazoles Consumption by Regions (2011-2016)

Table Global Polybenzimidazoles Consumption Market by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Consumption Market Share by Regions (2011-2016)

2011 2012 2013 2014 2015 2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Global Polybenzimidazoles Consumption Market Share by Regions (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Global Polybenzimidazoles Consumption Market Share by Regions

Source: QYR Chemical Product Research Center, Dec. 2016

4.2 North America Polybenzimidazoles Production, Consumption, Export, Import by Regions (2011-2016)

Table North America Polybenzimidazoles Production, Consumption, Import & Export

(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.3 Europe Polybenzimidazoles Production, Consumption, Export, Import by Regions

(2011-2016)

Table Europe Polybenzimidazoles Production, Consumption, Import & Export

(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.4 China Polybenzimidazoles Production, Consumption, Export, Import by Regions

(2011-2016)

Table China Polybenzimidazoles Production, Consumption, Import & Export

(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.5 Japan Polybenzimidazoles Production, Consumption, Export, Import by Regions

(2011-2016)

Table Japan Polybenzimidazoles Production, Consumption, Import & Export

(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.6 Taiwan Polybenzimidazoles Production, Consumption, Export, Import by Regions

(2011-2016)

Table Taiwan Polybenzimidazoles Production, Consumption, Import & Export
(2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.7 India Polybenzimidazoles Production, Consumption, Export, Import by Regions
(2011-2016)

Table India Polybenzimidazoles Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

4.8 Row Polybenzimidazoles Production, Consumption, Export, Import by Regions
(2011-2016)

Table Row Polybenzimidazoles Production, Consumption, Import & Export (2011-2016)

2011 2012 2013 2014 2015 2016

Production

Import

Export

Consumption

Source: QYR Chemical Product Research Center, Dec. 2016

5 Global Polybenzimidazoles Production, Revenue (Value), Price Trend by Types

5.1 Global Polybenzimidazoles Production and Market Share by Types (2011-2016)

Table Global Polybenzimidazoles Production by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Protective Apparel

Membranes

?

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Production Share by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Protective Apparel

Membranes

?

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Production Market Share of Polybenzimidazoles by Types (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Production Market Share of Polybenzimidazoles by Types

Source: QYR Chemical Product Research Center, Dec. 2016

5.2 Global Polybenzimidazoles Revenue and Market Share by Types (2011-2016)

Table Global Polybenzimidazoles Revenue by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Protective Apparel

Membranes

?

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Table Global Polybenzimidazoles Revenue Share by Types (2011-2016)

2011 2012 2013 2014 2015 2016

Protective Apparel

Membranes

?

Total

Source: QYR Chemical Product Research Center, Dec. 2016

Figure Production Revenue Share of Polybenzimidazoles by Types (2011-2016)

Source: QYR Chemical Product Research Center, Dec. 2016

Figure 2015 Revenue Market Shar

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