

# Polyurethanes: New Technologies and Applications Drive Global Market Growth

https://marketpublishers.com/r/P13A79039E3EN.html

Date: August 2021

Pages: 149

Price: US\$ 2,750.00 (Single User License)

ID: P13A79039E3EN

# **Abstracts**

## Report Scope:

The scope of the report includes a general outlook of the polyurethane market. It examines industry standards, government and industry support, and other key factors related to the success of polyurethanes. This report segments the market into major subsegments like material, type, application, end user and region.

The material type explains the relevant and upcoming technologies covering the qualitative aspects of the market in brief details. A detailed overview of these technologies coupled with relevant market data in terms of market size is measured in dollar terms are provided. The application chapter includes detailed overviews of flexible foams, rigid foams, elastomers, adhesives and sealants, coatings and others.

This report covers the global market for polyurethanes and has an analysis of the global market trends, with the base year as 2020 and estimated compound annual growth rates (CAGR) for 2021 and 2026. Sales values are presented in U.S. dollars. Estimated values used are based on manufacturers' total revenues.

The study also discusses market dynamics such as drivers, restraints, opportunity and challenges. It further examines new and emerging trends and their impact on current and future market dynamics.

Report Includes:

109 tables



An overview of the global markets for polyurethanes technologies and applications

Analyses of the global market trends, with data from 2020, estimates for 2021, and projections of compound annual growth rates (CAGRs) through 2026

Highlights of key market dynamics (DROs) for polyurethanes technologies, opportunity assessment, and impact of COVID-19 on the progress of this market

Estimation of market size and market forecast for polyurethanes, and corresponding market share analysis by type, application, end user vertical, and geography

Discussion of key enabling technologies for the next generation of smart machines, including voice recognition technology, micro- and nano- sensors, radio frequency technologies, and neurocomputing

Insight into the growth development strategies of the key market players operating within the global PU market; their key competitive landscape and company share analysis

Descriptive company profiles of the major market players including Aragon Elastomers, BASF, COIM Group, Covestro AG, Dow Chemical Co., Lanxess, Eastman Chemical Co., Mitsubishi Chemical Holdings Corp.



## **Contents**

#### **CHAPTER 1 INTRODUCTION**

Study and Objectives

Reason for Doing This Study

Intended Audience

What's New in This Update?

Scope of This Report

Methodology and Information Sources

Geographic Breakdown

Analyst's Credentials

**BCC Custom Research** 

Related BCC Research Reports

#### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

#### **CHAPTER 3 MARKET OVERVIEW**

Polyurethanes: Chemistry, Properties and Applications

Polyurethane: A Versatile Material

**Market Drivers** 

Replacement of Conventional Materials

Recyclability of Polyurethanes

Growth in Bedding and Furniture Industry Driven by Expanding Populations

Market Challenges

Volatile Material Prices

Polyurethane Manufacturing Hazards

Environmental Hazards in the Manufacture and Application of Flexible Foams

**Market Trends** 

3D Printing Material

Biodegradable/Natural PU

**Energy Conservation** 

**Broad Applications** 

Value Chain Analysis

Market Regulations

**United States** 

Europe

China



India

Developments in the Polyurethane Market

**Descriptions** 

#### **CHAPTER 4 MARKET BREAKDOWN BY END USE**

Introduction

Furniture and Bedding

Impact of the COVID-19 Pandemic on the Furniture and Bedding Market

Market Estimates and Forecasts

Automobile Industry

Impact of the COVID-19 Pandemic on the Automotive Market

**Building and Construction** 

Market Estimates and Forecasts

**Electricals and Electronics** 

Market Estimates and Forecasts

Footwear

Impact of the COVID-19 Pandemic on the Footwear Market

Other End Uses

#### **CHAPTER 5 MARKET BREAKDOWN BY APPLICATION**

Introduction and Overview

Market for Polyurethanes by Application: Estimates and Forecast

Flexible Foams

Rigid Foams

Elastomers

Adhesives and Sealants

Coatings

Other Applications

#### **CHAPTER 6 MARKET BREAKDOWN BY TYPE**

Introduction and Overview

Market for Polyurethanes by Type: Estimates and Forecasts

Thermosetting Polyurethanes

Thermoplastic Polyurethanes

#### **CHAPTER 7 MARKET BREAKDOWN BY REGION**



Introduction and Overview

Market for Polyurethanes by Region: Estimates and Forecasts

Asia-Pacific

North America

**United States** 

Canada

Europe

Rest of the World

#### **CHAPTER 8 MARKET BREAKDOWN BY MATERIAL**

Introduction and Overview

Global Market for Polyurethanes by Material

Toluene Diisocyanate (TDI)

Methylene Diphenyl Diisocyanate (MDI)

**Bio-based Materials** 

**Polyols** 

Other Materials

#### **CHAPTER 9 COMPETITIVE LANDSCAPE**

Major Strategic Developments

Acquisitions

Agreements

Collaboration

**Divestments** 

Expansions

Mergers

**New Products** 

**Partnerships** 

Price Increases

Other Developments

Company Share Analysis

Effects of COVID-19 on Leading Manufacturers

Dow

**BASF** 

Evonik

**Huntsman International LLC** 



#### Covestro AG

Wanhua

#### **CHAPTER 10 COMPANY PROFILES**

ACME-HARDESTY CO.

ARAGON ELASTOMERS, LLC.

ARKEMA INC.

ARGONICS INC.

**BASF SE** 

BERGAD INC.

BOND POLYMERS INTERNATIONAL

CARLISLE POLYURETHANE SYSTEMS

**COIM GROUP** 

**COVESTRO AG** 

DIC CORP.

THE DOW CHEMICAL CO.

EASTMAN CHEMICAL CO.

**EVONIK INDUSTRIES AG** 

FXI

**HUNTSMAN INTERNATIONAL LLC** 

**LANXESS** 

MITSUBISHI CHEMICAL HOLDINGS CORP.

MITSUI CHEMICALS AND SKC POLYURETHANES INC. (MCNS)

NCFI POLYURETHANES

POLYURETHANE LTD.

PRECISION URETHANE & MACHINE INC.

**PROTHANE** 

PSI URETHANES INC.

RECTICEL

SELENA FM SA

SHANDONG INOV POLYURETHANE CO. LTD.

THE SHEPHERD CHEMICAL CO.

THE VITA GROUP

TOSOH CORP.

TOWNSEND CHEMICALS

URETHANE INNOVATORS INC.

VCM POLYURETHANES PVT. LTD.

**WANHUA** 



# WOODBRIDGE ZHEJIANG HENGTAI YUAN POLYURETHANE CO. LTD.

## **CHAPTER 11 APPENDIX**

Acronyms Report Sources



# **List Of Tables**

#### LIST OF TABLES

Summary Table: Global Market for Polyurethanes, by Region, Through 2026

Table 1: Polyurethane Applications

Table 2: Global Market for Polyurethanes, by End Use, Through 2026

Table 3: Global Market Volumes of Polyurethanes, by End Use, Through 2026

Table 4: Global Market for Polyurethanes for Furniture and Bedding, by Region,

Through 2026

Table 5: Global Market for Polyurethanes in the Automobile Industry, by Region,

Through 2026

Table 6: Benefits of Polyurethane in Automotive Applications

Table 7: Global Market for Polyurethanes in the Building and Construction Industry, by

Region, Through 2026

Table 8: Companies' Polyurethane Foam-based Insulation Products

Table 9: Global Market for Polyurethanes in the Electricals and Electronics Industry, by

Region, Through 2026

Table 10: Global Market for Polyurethanes in the Footwear Industry, by Region,

Through 2026

Table 11: Global Market for Polyurethanes in Other End Uses, by Region, Through

2026

Table 12: Global Market for Polyurethanes, by Application, Through 2026

Table 13: Global Market Volumes of Polyurethanes, by Application, Through 2026

Table 14: Global Market for Polyurethanes for Flexible Foam Applications, by Region,

Through 2026

Table 15: Consumer and Commercial PU Products

Table 16: Global Market for Polyurethanes in Rigid Foam Applications, by Region,

Through 2026

Table 17: Global Market for Polyurethanes in Elastomer Applications, by Region,

Through 2026

Table 18: Global Market for Polyurethanes in Adhesive and Sealant Applications, by

Region, Through 2026

Table 19: Advantages of Polyurethane Sealants

Table 20: Global Market for Polyurethanes in Coating Applications, by Region, Through

2026

Table 21: Product Labeling

Table 22: Global Market for Polyurethanes in Other Applications, by Region, Through

2026



- Table 23: Global Market for Polyurethanes, by Type, Through 2026
- Table 24: Global Market Volumes of Polyurethanes, by Type, Through 2026
- Table 25: Global Thermosetting Polyurethane Market, by Region, Through 2026
- Table 26: Global Market for Thermoplastic Polyurethane, by Region, Through 2026
- Table 27: Global Market for Polyurethanes, by Region, Through 2026
- Table 28: Global Market Volumes of Polyurethanes, by Region, Through 2026
- Table 29: Asia-Pacific Market for Polyurethane, by End Use, Through 2026
- Table 30: Asia-Pacific Market for Polyurethane, by Application, Through 2026
- Table 31: Asia-Pacific Market for Polyurethane Market, by Country, Through 2026
- Table 32: Asia-Pacific Market for Polyurethane, by Type, Through 2026
- Table 33: Asia-Pacific Market Volumes of Polyurethane, by Type, Through 2026
- Table 34: Asia-Pacific Market for Polyurethane, by Material, Through 2026
- Table 35: North American Market for Polyurethane, by Country, Through 2026
- Table 36: North American Market for Polyurethane, by End Use, Through 2026
- Table 37: North American Polyurethane Market, by Application, Through 2026
- Table 38: North American Market for Polyurethane, by Type, Through 2026
- Table 39: North American Market Volumes of Polyurethane, by Type, Through 2026
- Table 40: North American Polyurethane Market, by Material, Through 2026
- Table 41: European Market for Polyurethane, by Country, Through 2026
- Table 42: European Market for Polyurethane, by Application, Through 2026
- Table 43: European Market for Polyurethane, by End Use, Through 2026
- Table 44: European Market for Polyurethane, by Type, Through 2026
- Table 45: European Market Volumes of Polyurethane, by Type, Through 2026
- Table 46: Europe Market for Polyurethane, by Material, Through 2026
- Table 47: Rest of the World Market for Polyurethane, by End Use, Through 2026
- Table 48: Rest of the World Market for Polyurethane, by Application, Through 2026
- Table 49: Rest of the World Market for Polyurethane, by Type, Through 2026
- Table 50: Rest of the World Market Volumes of Polyurethane, by Type, Through 2026
- Table 51: Rest of the World Market for Polyurethane, by Material, Through 2026
- Table 52: Global Market for Polyurethanes, by Material, Through 2026
- Table 53: Global Market for Toluene Diisocyanate Polyurethanes, by Region, Through 2026
- Table 54: Global Market for Methylene Diphenyl Diisocyanate Polyurethanes, by
- Region, Through 2026
- Table 55: Key Benefits of Bio-based Materials
- Table 56: Principal Technologies Available
- Table 57: Global Market for Polyols Polyurethanes, by Region, Through 2026
- Table 58: Benefits of Additives
- Table 59: Silicone Additives for Flexible Foam Applications and Their Properties



Table 60: Global Market for Polyurethanes Based on Other Types of Materials, by

Region, Through 2026

Table 61: Distribution of Key Strategies of Leading Players, 2019-2021

Table 62: Recent PU Industry Activities, by Company, 2015-2016

Table 63: Acquisitions in the Global Market for Polyurethanes, 2019-2021

Table 64: Agreements in the Global Market for Polyurethanes, 2021

Table 65: Collaborations in the Global Market for Polyurethanes, 2019-2020

Table 66: Divestment Strategies in the Global Market for Polyurethanes, 2019-2021

Table 67: Major Expansions in the Global Market for Polyurethanes, 2019-2021

Table 68: Mergers in the Global Market for Polyurethanes, 2019

Table 69: New Product Launches in the Global Market for Polyurethanes, 2019-2021

Table 70: Partnerships in the Global Market for Polyurethanes, 2020-2021

Table 71: Price Increases in the Global Market for Polyurethanes, 2020-2021

Table 72: Other Developments in the Global Market for Polyurethanes, 2020-2021

Table 73: Acme-Hardesty's Product Portfolio

Table 74: Aragon Elastomers' Product Portfolio

Table 75: Arkema's Product Portfolio

Table 76: Argonics Inc. Product Portfolio

Table 77: BASF's Product Portfolio

Table 78: Bergad's Product Portfolio

Table 79: Bond Polymers International's Product Portfolio

Table 80: Carlisle Polyurethane Systems' Product Portfolio

Table 81: COIM's Product Portfolio

Table 82: Covestro AG's Product Portfolio

Table 83: DIC Corp.'s Product Portfolio

Table 84: Dow Chemical's Product Portfolio

Table 85: Eastman Chemical Co.'s Product Portfolio

Table 86: Evonik Industries' Product Portfolio

Table 87: FXI's Product Portfolio

Table 88: Huntsman International LLC's Product Portfolio

Table 89: Lanxess' Product Portfolio

Table 90: Mitsui Chemicals and SKC Polyurethanes Inc.'s Product Portfolio

Table 91: NCFI Polyurethanes' Product Portfolio

Table 92: Polyurethane Ltd.'s Product Portfolio

Table 93: Precision Urethane & Machine's Product Portfolio

Table 94: Prothane's Product Portfolio

Table 95: PSI Urethanes Inc.'s Product Portfolio

Table 96: Recticel's Product Portfolio

Table 97: Selena FM SA's Product Portfolio



Table 98: Shandong INOV Polyurethane Co. Ltd.'s Product Portfolio

Table 99: The Shepherd Chemical Co.'s Product Portfolio

Table 100: The Vita Group's Product Portfolio

Table 101: Tosoh Corp.'s Product Portfolio

Table 102: Townsend Chemicals' Product Portfolio

Table 103: Urethane Innovators' Product Portfolio

Table 104: VCM Polyurethanes' Product Portfolio

Table 105: Wanhua Chemical's Product Portfolio

Table 106: Woodbridge's Product Portfolio

Table 107: Zhejiang Hengtai's Product Portfolio

Table 108: Acronyms Used in This Report

Table 109: Report Sources



# **List Of Figures**

#### LIST OF FIGURES

Summary Figure: Global Market Shares of Polyurethanes, by Region, 2020

Figure 1: Trends in Global Crude Oil Prices, 2015-2020

Figure 2: Polyurethane Value Chain Analysis

Figure 3: Global Market Shares of Polyurethanes, by End Use, 2020

Figure 4: Global Market Shares of Polyurethanes for Furniture and Bedding, by Region, 2020

Figure 5: Global Automotive Sales, by Region, 2017-2019

Figure 6: Global Market Shares of Polyurethanes in the Automobile Industry, by Region, 2020

Figure 7: Global Market Shares of Polyurethanes in the Building and Construction Industry, by Region, 2020

Figure 8: Global Market Shares of Polyurethanes in the Electricals and Electronics Industry, by Region, 2020

Figure 9: Global Market Shares of Polyurethanes in the Footwear Industry, by Region, 2020

Figure 10: Global Market Shares of Polyurethanes in Other End Uses, by Region, 2020

Figure 11: Global Market Shares of Polyurethanes, by Application, 2020

Figure 12: Global Market Shares of Polyurethanes for Flexible Foam Applications, by Region, 2020

Figure 13: Global Market Shares of Polyurethanes in Rigid Foam Applications, by Region, 2020

Figure 14: Global Market Shares of Polyurethanes for Elastomer Applications, by Region, 2020

Figure 15: Global Market Shares of Polyurethanes for Adhesive and Sealant Applications, by Region, 2020

Figure 16: Global Market Shares of Polyurethanes for Coating Applications, by Region, 2020

Figure 17: Global Market Shares of Polyurethanes for Other Applications, by Region, 2020

Figure 18: Global Market Shares of Polyurethanes, by Type, 2020

Figure 19: Global Market Shares of Thermosetting Polyurethane, by Region, 2020

Figure 20: Global Market Shares of Thermoplastic Polyurethane, by Region, 2020

Figure 21: Global Market Shares of Polyurethanes, by Region, 2020

Figure 22: North American Market Shares of Polyurethane, by End Use, 2020

Figure 23: U.S. Market for Polyurethane, 2020-2026



Figure 24: Canadian Market for Polyurethane, 2020-2026

Figure 25: Global Market Shares of Polyurethanes, by Material, 2020

Figure 26: Global Market Shares of Toluene Diisocyanate Polyurethanes, by Region,

2020

Figure 27: Global Market Shares of Methylene Diphenyl Diisocyanate Polyurethanes, by Region, 2020

Figure 28: Global Market Shares of Polyols Polyurethanes, by Region, 2020

Figure 29: Global Market Shares of Polyurethanes Based on Other Types of Materials,

by Region, 2020

Figure 30: Global Company Market Shares, 2020



#### I would like to order

Product name: Polyurethanes: New Technologies and Applications Drive Global Market Growth

Product link: https://marketpublishers.com/r/P13A79039E3EN.html

Price: US\$ 2,750.00 (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 <a href="https://marketpublishers.com/r/P13A79039E3EN.html">https://marketpublishers.com/r/P13A79039E3EN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970