

Europe Plastics for Tribology Application Market Size and Forecast (2021-2031), Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Material [Polyamide (PA), Polyoxymethylene (POM), Polyethylene Terephthalate (PET), Polyphthalamide (PPA), Polyvinylidene Fluoride (PVDF), Polyphenylene Sulfide (PPS), Polyetheretherketone (PEEK), and Others], Application (Bearings, Gears, Seals, Bushings, and Others), End Use (Automotive, Aerospace, Industrial Machinery, Oil & Gas, Marine, and Others), and Country

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Abstracts

The Europe plastics for tribology application market is anticipated to grow from US\$ 7.99 billion in 2023 to US\$ 13.04 billion by 2031; it is expected to register a CAGR of 6.3% from 2023 to 2031.

Plastics for tribology applications represent diverse materials specifically engineered to excel in friction, wear, and lubrication scenarios across industries. These plastics play a vital role in various industries, including automotive, aerospace, manufacturing, oil & gas, and marine. Plastics have emerged as promising materials for tribological applications due to their versatility, lightweight nature, and ability to be tailored for specific requirements. The increasing demand for high-performance materials that can withstand extreme operating conditions while reducing energy consumption and maintenance costs is the significant driver of the Europe plastics for tribology application market. Moreover, polymer science and engineering advancements have led to the

development of specialized plastic compounds and composites with enhanced tribological properties. Additionally, the shift towards digitalization and industry 4.0 technologies is creating new opportunities for plastics in tribology applications. Smart components equipped with sensors and monitoring systems require materials that can withstand high loads and prolonged use without compromising performance. Plastics with tailored tribological properties are well-suited for such applications, contributing to the overall growth of the market.

The European automotive industry is experiencing a period of growth, fueled by factors such as increasing demand for new vehicles and a focus on technological advancements. This growth directly impacts the demand for plastics with specific tribological properties. Tribology is the science of friction, lubrication, and wear, and it plays a crucial role in ensuring the smooth operation and durability of various automotive components. In tribological applications, plastic offers various advantages over traditional materials, such as metals and ceramics. Plastics can be engineered to have specific friction and wear properties, allowing manufacturers to tailor materials to meet the demands of different automotive components. For instance, polymers such as polytetrafluoroethylene (PTFE) and polyether ether ketone (PEEK) exhibit low friction and wear characteristics, making them ideal for use in bearings, seals, and gears. As car manufacturers prioritize lightweight materials to improve fuel efficiency and meet emission regulations, plastics have become increasingly attractive alternatives to traditional materials. Additionally, plastics such as polyamides possess self-lubricating properties, eliminating the need for external lubricants, simplifying maintenance, and reducing environmental impact.

The growth of the European automotive industry translates to a higher production volume of vehicles. This, in turn, necessitates a larger quantity of tribological components such as bearings, gears, and seals. According to the European Automobile Manufacturers' Association, 13.1 million motor vehicles are manufactured annually in the European Union (EU). With over 10.5 million new registrations, EU car sales surged by almost 14% in 2023. Battery-electric sales soared by 37%, accounting for ~15% market share. In addition, in 2023, the EU solidified its position as the second-largest global car producer as production reached 12.1 million units, a growth of over 11%. The demand for lightweight materials to improve fuel efficiency and reduce emissions in vehicles is a significant driver of the Europe plastics for tribology applications market. Plastics are inherently lighter than metals, potentially decreasing the overall weight of automotive components without compromising performance. This weight reduction

enhances fuel economy and contributes to lower CO2 emissions, aligning with European stringent environmental regulations.

A few key players operating in the Europe plastics for tribology application market are BASF SE, DuPont de Nemours Inc, Covestro AG, SABIC, Lanxess AG, Toray Industries Inc, Mitsubishi Chemical Group Corp, Solvay SA, Arkema SA, and Evonik Industries AG. Players operating in the market are highly focused on developing high-quality and innovative product offerings to fulfill customers' requirements.

The overall Europe plastics for tribology application market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the Europe plastics for tribology application market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts, such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants, such as valuation experts, research analysts, and key opinion leaders—specializing in the Europe plastics for tribology application market.

Contents

1. INTRODUCTION

- 1.1 The Insight Partners Research Report Guidance
- 1.2 Market Segmentation
- 1.3 Limitations and Assumptions

2. EXECUTIVE SUMMARY

- 2.1 Key Insights
- 2.2 Market Attractiveness

3. RESEARCH METHODOLOGY

- 3.1 Secondary Research
- 3.2 Primary Research
 - 3.2.1 Hypothesis formulation:
 - 3.2.2 Macro-economic factor analysis:
 - 3.2.3 Developing base number:
 - 3.2.4 Data Triangulation:
 - 3.2.5 Country level data:

4. EUROPE PLASTICS FOR TRIBOLOGY APPLICATION MARKET LANDSCAPE

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Suppliers
 - 4.2.2 Bargaining Power of Buyers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Intensity of Competitive Rivalry
 - 4.2.5 Threat of Substitutes
- 4.3 Ecosystem Analysis
 - 4.3.1 Raw Material Suppliers:
 - 4.3.2 Manufacturers:
 - 4.3.3 Distributors/Suppliers :
 - 4.3.4 OEM:
 - 4.3.5 End Users:
- 4.4 List of Vendors in the Value Chain

5. EUROPE PLASTICS FOR TRIBOLOGY APPLICATION MARKET – KEY MARKET DYNAMICS

5.1 Europe Plastics for Tribology Application Market – Key Market Dynamics

5.2 Market Drivers

5.2.1 Growing Automotive Industry

5.2.2 Rising Industrial Production

5.3 Market Restraints

5.3.1 Availability of Substitutes

5.4 Market Opportunities

5.4.1 Growing Focus on Sustainable Solutions

5.5 Future Trends

5.5.1 Surging Adoption of High-Performance Plastics

5.6 Impact of Drivers and Restraints:

6. EUROPE PLASTICS FOR TRIBOLOGY APPLICATION MARKET ANALYSIS

6.1 Europe Plastics for Tribology Application Market Volume (Kilo Tons), 2023–2031

6.2 Europe Plastics for Tribology Application Market Forecast and Analysis

6.3 Europe Plastics for Tribology Application Market Revenue (US\$ Million), 2023–2031

6.4 Europe Plastics for Tribology Application Market Forecast and Analysis

7. EUROPE PLASTICS FOR TRIBOLOGY APPLICATION MARKET ANALYSIS – BY MATERIAL

7.1 Polyamide (PA)

7.1.1 Overview

7.1.2 Polyamide (PA): Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.1.3 Polyamide (PA): Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

7.2 Polyoxymethylene (POM)

7.2.1 Overview

7.2.2 Polyoxymethylene (POM): Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.2.3 Polyoxymethylene (POM): Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

7.3 Polyethylene Terephthalate (PET)

7.3.1 Overview

7.3.2 Polyethylene Terephthalate (PET): Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.3.3 Polyethylene Terephthalate (PET): Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

7.4 Polyphthalamide (PPA)

7.4.1 Overview

7.4.2 Polyphthalamide (PPA): Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.4.3 Polyphthalamide (PPA): Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

7.5 Polyvinylidene Fluoride (PVDF)

7.5.1 Overview

7.5.2 Polyvinylidene Fluoride (PVDF): Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.5.3 Polyvinylidene Fluoride (PVDF): Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

7.6 Polyphenylene Sulfide (PPS)

7.6.1 Overview

7.6.2 Polyphenylene Sulfide (PPS): Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.6.3 Polyphenylene Sulfide (PPS): Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

7.7 Polyetheretherketone (PEEK)

7.7.1 Overview

7.7.2 Polyetheretherketone (PEEK): Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.7.3 Polyetheretherketone (PEEK): Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

7.8 Others

7.8.1 Overview

7.8.2 Others: Europe Plastics for Tribology Application Market – Volume and Forecast to 2031 (Kilo Tons)

7.8.3 Others: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

8. EUROPE PLASTICS FOR TRIBOLOGY APPLICATION MARKET ANALYSIS – BY APPLICATION

8.1 Bearings

8.1.1 Overview

8.1.2 Bearings: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

8.2 Gears

8.2.1 Overview

8.2.2 Gears: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

8.3 Seals

8.3.1 Overview

8.3.2 Seals: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

8.4 Bushings

8.4.1 Overview

8.4.2 Bushings: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

9. EUROPE PLASTICS FOR TRIBOLOGY APPLICATION MARKET ANALYSIS – BY END-USE

9.1 Automotive

9.1.1 Overview

9.1.2 Automotive: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

9.2 Aerospace

9.2.1 Overview

9.2.2 Aerospace: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

9.3 Industrial Machinery

9.3.1 Overview

9.3.2 Industrial Machinery: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

9.4 Oil and Gas

9.4.1 Overview

9.4.2 Oil and Gas: Europe Plastics for Tribology Application Market – Revenue and

Forecast to 2031 (US\$ Million)

9.5 Marine

9.5.1 Overview

9.5.2 Marine: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

9.6 Others

9.6.1 Overview

9.6.2 Others: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

10. EUROPE PLASTICS FOR TRIBOLOGY APPLICATION MARKET – COUNTRY ANALYSIS

10.1 Europe

10.1.1 Europe Plastics for Tribology Application Market Breakdown by Countries

10.1.2 Europe Plastics for Tribology Application Market Revenue and Forecast and Analysis – by Country

10.1.2.1 Germany: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.2.1.1 Germany: Europe Plastics for Tribology Application Market Breakdown by Material

10.1.2.1.2 Germany: Europe Plastics for Tribology Application Market Breakdown by Application

10.1.2.1.3 Germany: Europe Plastics for Tribology Application Market Breakdown by End-Use

10.1.2.2 France: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.2.2.1 France: Europe Plastics for Tribology Application Market Breakdown by Material

10.1.2.2.2 France: Europe Plastics for Tribology Application Market Breakdown by Application

10.1.2.2.3 France: Europe Plastics for Tribology Application Market Breakdown by End-Use

10.1.2.3 UK: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.2.3.1 UK: Europe Plastics for Tribology Application Market Breakdown by Material

10.1.2.3.2 UK: Europe Plastics for Tribology Application Market Breakdown by Application

10.1.2.3.3 UK: Europe Plastics for Tribology Application Market Breakdown by End-Use

10.1.2.4 Italy: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.2.4.1 Italy: Europe Plastics for Tribology Application Market Breakdown by Material

10.1.2.4.2 Italy: Europe Plastics for Tribology Application Market Breakdown by Application

10.1.2.4.3 Italy: Europe Plastics for Tribology Application Market Breakdown by End-Use

10.1.2.5 Rest of Europe: Europe Plastics for Tribology Application Market – Revenue and Forecast to 2031 (US\$ Million)

10.1.2.5.1 Rest of Europe: Europe Plastics for Tribology Application Market Breakdown by Material

10.1.2.5.2 Rest of Europe: Europe Plastics for Tribology Application Market Breakdown by Application

10.1.2.5.3 Rest of Europe: Europe Plastics for Tribology Application Market Breakdown by End-Use

11. COMPETITIVE LANDSCAPE

11.1 Heat Map Analysis by Key Players

11.2 Company Positioning & Concentration

12. INDUSTRY LANDSCAPE

12.1 Overview

12.2 Market Initiative

12.3 Product News & Company News

12.4 Collaboration and Mergers & Acquisitions

13. COMPANY PROFILES

13.1 BASF SE

13.1.1 Key Facts

13.1.2 Business Description

13.1.3 Products and Services

13.1.4 Financial Overview

13.1.5 SWOT Analysis

- 13.1.6 Key Developments
- 13.2 DuPont de Nemours Inc
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
- 13.3 Covestro AG
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
- 13.4 SABIC
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments
- 13.5 Lanxess AG
 - 13.5.1 Key Facts
 - 13.5.2 Business Description
 - 13.5.3 Products and Services
 - 13.5.4 Financial Overview
 - 13.5.5 SWOT Analysis
 - 13.5.6 Key Developments
- 13.6 Toray Industries Inc
 - 13.6.1 Key Facts
 - 13.6.2 Business Description
 - 13.6.3 Products and Services
 - 13.6.4 Financial Overview
 - 13.6.5 SWOT Analysis
 - 13.6.6 Key Developments
- 13.7 Mitsubishi Chemical Group Corp
 - 13.7.1 Key Facts
 - 13.7.2 Business Description

- 13.7.3 Products and Services
- 13.7.4 Financial Overview
- 13.7.5 SWOT Analysis
- 13.7.6 Key Developments
- 13.8 Solvay SA
 - 13.8.1 Key Facts
 - 13.8.2 Business Description
 - 13.8.3 Products and Services
 - 13.8.4 Financial Overview
 - 13.8.5 SWOT Analysis
 - 13.8.6 Key Developments
- 13.9 Arkema SA
 - 13.9.1 Key Facts
 - 13.9.2 Business Description
 - 13.9.3 Products and Services
 - 13.9.4 Financial Overview
 - 13.9.5 SWOT Analysis
 - 13.9.6 Key Developments
- 13.10 Evonik Industries AG
 - 13.10.1 Key Facts
 - 13.10.2 Business Description
 - 13.10.3 Products and Services
 - 13.10.4 Financial Overview
 - 13.10.5 SWOT Analysis
 - 13.10.6 Key Developments

14. APPENDIX

- 14.1 About The Insight Partners

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