

# Global Gamma-ray Resistant Polypropylene Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/GA2DE6581270EN.html>

Date: March 2026

Pages: 141

Price: US\$ 2,980.00 (Single User License)

ID: GA2DE6581270EN

## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Gamma-ray Resistant Polypropylene competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Gamma-ray resistant polypropylene is a class of highly stabilized polymer materials engineered for use under high-energy radiation such as gamma-ray or electron-beam sterilization. It is primarily derived from high-purity medical-grade polypropylene resins produced through controlled polymerization processes and formulated with antioxidant, radical scavenging, and anti-yellowing stabilizer systems to ensure superior resistance to radiation-induced degradation. After exposure to sterilization doses (typically 25-50 kGy), the material retains its mechanical integrity, optical clarity, and chemical stability, making it suitable for disposable medical devices, pharmaceutical packaging, and in-vitro diagnostic (IVD) components. Upstream raw material suppliers include major global producers such as Borealis (Bormed series), LyondellBasell (Purell series), TotalEnergies (Purell series), and ExxonMobil (Achieve series), while domestic sources such as Sinopec, Yanshan Petrochemical, and Baofeng Energy are developing medical-grade polypropylene resins. Downstream manufacturers encompass medical consumables, drug packaging, and diagnostic component producers, forming a complete supply chain for radiation-sterilizable polypropylene materials. In 2024, the global sales volume of gamma-irradiated polypropylene was 59,805 tons, with an average unit price of US\$1,670 per ton and an average gross profit margin of 32.8%. Companies generally produce according to customer needs, with a production volume of 500-1,000 tons per batch.

The global Gamma-ray Resistant Polypropylene market size was estimated at USD 100.0 million in 2025 and is projected to grow at a compound annual growth rate

(CAGR) of 6.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Gamma-ray Resistant Polypropylene market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Gamma-ray Resistant Polypropylene market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Gamma-ray Resistant Polypropylene market.

### **Global Gamma-ray Resistant Polypropylene Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

## **Key Company**

ExxonMobil  
Borealis  
LCY Chemical  
Lyondellbasell  
China Petrochemical Corporation  
Sumitomo Chemical  
TotalEnergies  
Sibur

## **Market Segmentation (by Type)**

Homopolymer Polypropylene  
Copolymer Polypropylene

## **Market Segmentation (by Application)**

Medical Sterilization  
Industrial Packaging  
Experimental Research

## **Geographic Segmentation**

North America (USA, Canada, Mexico)  
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)  
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)  
South America (Brazil, Argentina, Columbia, Rest of South America)  
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

## **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study  
Neutral perspective on the market performance  
Recent industry trends and developments  
Competitive landscape & strategies of key players  
Potential & niche segments and regions exhibiting promising growth covered  
Historical, current, and projected market size, in terms of value

In-depth analysis of the Gamma-ray Resistant Polypropylene Market  
Overview of the regional outlook of the Gamma-ray Resistant Polypropylene Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Gamma-ray Resistant Polypropylene Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential

of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Gamma-ray Resistant Polypropylene, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent

developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

### **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Gamma-ray Resistant Polypropylene
- 1.2 Key Market Segments
  - 1.2.1 Gamma-ray Resistant Polypropylene Segment by Type
  - 1.2.2 Gamma-ray Resistant Polypropylene Segment by Application
- 1.3 Methodology & Sources of Information
  - 1.3.1 Research Methodology
  - 1.3.2 Research Process
  - 1.3.3 Market Breakdown and Data Triangulation
  - 1.3.4 Base Year
  - 1.3.5 Report Assumptions & Caveats

### **2 GAMMA-RAY RESISTANT POLYPROPYLENE MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Gamma-ray Resistant Polypropylene Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Gamma-ray Resistant Polypropylene Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 GAMMA-RAY RESISTANT POLYPROPYLENE MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Gamma-ray Resistant Polypropylene Product Life Cycle
- 3.3 Global Gamma-ray Resistant Polypropylene Sales by Manufacturers (2020-2025)
- 3.4 Global Gamma-ray Resistant Polypropylene Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Gamma-ray Resistant Polypropylene Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Gamma-ray Resistant Polypropylene Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Gamma-ray Resistant Polypropylene Market Competitive Situation and Trends

- 3.8.1 Gamma-ray Resistant Polypropylene Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest Gamma-ray Resistant Polypropylene Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

#### **4 GAMMA-RAY RESISTANT POLYPROPYLENE INDUSTRY CHAIN ANALYSIS**

- 4.1 Gamma-ray Resistant Polypropylene Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

#### **5 THE DEVELOPMENT AND DYNAMICS OF GAMMA-RAY RESISTANT POLYPROPYLENE MARKET**

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
  - 5.4.1 New Product Developments
  - 5.4.2 Mergers & Acquisitions
  - 5.4.3 Expansions
  - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
  - 5.5.1 Industry Policies Analysis
  - 5.5.2 Economic Environment Analysis
  - 5.5.3 Social Environment Analysis
  - 5.5.4 Technological Environment Analysis
- 5.6 Global Gamma-ray Resistant Polypropylene Market Porter's Five Forces Analysis
  - 5.6.1 Global Trade Frictions
  - 5.6.2 U.S. Tariff Policy ? April 2025
  - 5.6.3 Global Trade Frictions and Their Impacts to Gamma-ray Resistant Polypropylene Market
- 5.7 ESG Ratings of Leading Companies

#### **6 GAMMA-RAY RESISTANT POLYPROPYLENE MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Gamma-ray Resistant Polypropylene Sales Market Share by Type (2020-2025)

6.3 Global Gamma-ray Resistant Polypropylene Market Size by Type (2020-2025)

6.4 Global Gamma-ray Resistant Polypropylene Price by Type (2020-2025)

## **7 GAMMA-RAY RESISTANT POLYPROPYLENE MARKET SEGMENTATION BY APPLICATION**

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Gamma-ray Resistant Polypropylene Market Sales by Application (2020-2025)

7.3 Global Gamma-ray Resistant Polypropylene Market Size (M USD) by Application (2020-2025)

7.4 Global Gamma-ray Resistant Polypropylene Sales Growth Rate by Application (2020-2025)

## **8 GAMMA-RAY RESISTANT POLYPROPYLENE MARKET SALES BY REGION**

8.1 Global Gamma-ray Resistant Polypropylene Sales by Region

8.1.1 Global Gamma-ray Resistant Polypropylene Sales by Region

8.1.2 Global Gamma-ray Resistant Polypropylene Sales Market Share by Region

8.2 Global Gamma-ray Resistant Polypropylene Market Size by Region

8.2.1 Global Gamma-ray Resistant Polypropylene Market Size by Region

8.2.2 Global Gamma-ray Resistant Polypropylene Market Size by Region

8.3 North America

8.3.1 North America Gamma-ray Resistant Polypropylene Sales by Country

8.3.2 North America Gamma-ray Resistant Polypropylene Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Gamma-ray Resistant Polypropylene Sales by Country

8.4.2 Europe Gamma-ray Resistant Polypropylene Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

- 8.5.1 Asia Pacific Gamma-ray Resistant Polypropylene Sales by Region
- 8.5.2 Asia Pacific Gamma-ray Resistant Polypropylene Market Size by Region
- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
  - 8.6.1 South America Gamma-ray Resistant Polypropylene Sales by Country
  - 8.6.2 South America Gamma-ray Resistant Polypropylene Market Size by Country
  - 8.6.3 Brazil Market Overview
  - 8.6.4 Argentina Market Overview
  - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
  - 8.7.1 Middle East and Africa Gamma-ray Resistant Polypropylene Sales by Region
  - 8.7.2 Middle East and Africa Gamma-ray Resistant Polypropylene Market Size by Region
  - 8.7.3 Saudi Arabia Market Overview
  - 8.7.4 UAE Market Overview
  - 8.7.5 Egypt Market Overview
  - 8.7.6 Nigeria Market Overview
  - 8.7.7 South Africa Market Overview

## **9 GAMMA-RAY RESISTANT POLYPROPYLENE MARKET PRODUCTION BY REGION**

- 9.1 Global Production of Gamma-ray Resistant Polypropylene by Region(2020-2025)
- 9.2 Global Gamma-ray Resistant Polypropylene Revenue Market Share by Region (2020-2025)
- 9.3 Global Gamma-ray Resistant Polypropylene Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Gamma-ray Resistant Polypropylene Production
  - 9.4.1 North America Gamma-ray Resistant Polypropylene Production Growth Rate (2020-2025)
  - 9.4.2 North America Gamma-ray Resistant Polypropylene Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Gamma-ray Resistant Polypropylene Production
  - 9.5.1 Europe Gamma-ray Resistant Polypropylene Production Growth Rate (2020-2025)

9.5.2 Europe Gamma-ray Resistant Polypropylene Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Gamma-ray Resistant Polypropylene Production (2020-2025)

9.6.1 Japan Gamma-ray Resistant Polypropylene Production Growth Rate (2020-2025)

9.6.2 Japan Gamma-ray Resistant Polypropylene Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Gamma-ray Resistant Polypropylene Production (2020-2025)

9.7.1 China Gamma-ray Resistant Polypropylene Production Growth Rate (2020-2025)

9.7.2 China Gamma-ray Resistant Polypropylene Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

10.1 ExxonMobil

10.1.1 ExxonMobil Basic Information

10.1.2 ExxonMobil Gamma-ray Resistant Polypropylene Product Overview

10.1.3 ExxonMobil Gamma-ray Resistant Polypropylene Product Market Performance

10.1.4 ExxonMobil Business Overview

10.1.5 ExxonMobil SWOT Analysis

10.1.6 ExxonMobil Recent Developments

10.2 Borealis

10.2.1 Borealis Basic Information

10.2.2 Borealis Gamma-ray Resistant Polypropylene Product Overview

10.2.3 Borealis Gamma-ray Resistant Polypropylene Product Market Performance

10.2.4 Borealis Business Overview

10.2.5 Borealis SWOT Analysis

10.2.6 Borealis Recent Developments

10.3 LCY Chemical

10.3.1 LCY Chemical Basic Information

10.3.2 LCY Chemical Gamma-ray Resistant Polypropylene Product Overview

10.3.3 LCY Chemical Gamma-ray Resistant Polypropylene Product Market

Performance

10.3.4 LCY Chemical Business Overview

10.3.5 LCY Chemical SWOT Analysis

10.3.6 LCY Chemical Recent Developments

10.4 Lyondellbasell

10.4.1 Lyondellbasell Basic Information

10.4.2 Lyondellbasell Gamma-ray Resistant Polypropylene Product Overview

- 10.4.3 Lyondellbasell Gamma-ray Resistant Polypropylene Product Market Performance
  - 10.4.4 Lyondellbasell Business Overview
  - 10.4.5 Lyondellbasell Recent Developments
- 10.5 China Petrochemical Corporation
  - 10.5.1 China Petrochemical Corporation Basic Information
  - 10.5.2 China Petrochemical Corporation Gamma-ray Resistant Polypropylene Product Overview
  - 10.5.3 China Petrochemical Corporation Gamma-ray Resistant Polypropylene Product Market Performance
  - 10.5.4 China Petrochemical Corporation Business Overview
  - 10.5.5 China Petrochemical Corporation Recent Developments
- 10.6 Sumitomo Chemical
  - 10.6.1 Sumitomo Chemical Basic Information
  - 10.6.2 Sumitomo Chemical Gamma-ray Resistant Polypropylene Product Overview
  - 10.6.3 Sumitomo Chemical Gamma-ray Resistant Polypropylene Product Market Performance
  - 10.6.4 Sumitomo Chemical Business Overview
  - 10.6.5 Sumitomo Chemical Recent Developments
- 10.7 TotalEnergies
  - 10.7.1 TotalEnergies Basic Information
  - 10.7.2 TotalEnergies Gamma-ray Resistant Polypropylene Product Overview
  - 10.7.3 TotalEnergies Gamma-ray Resistant Polypropylene Product Market Performance
  - 10.7.4 TotalEnergies Business Overview
  - 10.7.5 TotalEnergies Recent Developments
- 10.8 Sibur
  - 10.8.1 Sibur Basic Information
  - 10.8.2 Sibur Gamma-ray Resistant Polypropylene Product Overview
  - 10.8.3 Sibur Gamma-ray Resistant Polypropylene Product Market Performance
  - 10.8.4 Sibur Business Overview
  - 10.8.5 Sibur Recent Developments

## **11 GAMMA-RAY RESISTANT POLYPROPYLENE MARKET FORECAST BY REGION**

- 11.1 Global Gamma-ray Resistant Polypropylene Market Size Forecast
- 11.2 Global Gamma-ray Resistant Polypropylene Market Forecast by Region
  - 11.2.1 North America Market Size Forecast by Country

- 11.2.2 Europe Gamma-ray Resistant Polypropylene Market Size Forecast by Country
- 11.2.3 Asia Pacific Gamma-ray Resistant Polypropylene Market Size Forecast by Region
- 11.2.4 South America Gamma-ray Resistant Polypropylene Market Size Forecast by Country
- 11.2.5 Middle East and Africa Forecasted Sales of Gamma-ray Resistant Polypropylene by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

- 12.1 Global Gamma-ray Resistant Polypropylene Market Forecast by Type (2026-2035)
  - 12.1.1 Global Forecasted Sales of Gamma-ray Resistant Polypropylene by Type (2026-2035)
  - 12.1.2 Global Gamma-ray Resistant Polypropylene Market Size Forecast by Type (2026-2035)
  - 12.1.3 Global Forecasted Price of Gamma-ray Resistant Polypropylene by Type (2026-2035)
- 12.2 Global Gamma-ray Resistant Polypropylene Market Forecast by Application (2026-2035)
  - 12.2.1 Global Gamma-ray Resistant Polypropylene Sales (K MT) Forecast by Application
  - 12.2.2 Global Gamma-ray Resistant Polypropylene Market Size (M USD) Forecast by Application (2026-2035)

## **13 CONCLUSION AND KEY FINDINGS**

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Gamma-ray Resistant Polypropylene Market Size by Type (M USD)

Table 4. Global Gamma-ray Resistant Polypropylene Market Size by Application

Table 5. Gamma-ray Resistant Polypropylene Market Size Comparison by Region (M USD)

Table 6. Global Gamma-ray Resistant Polypropylene Sales (K MT) by Manufacturers (2020-2025)

Table 7. Global Gamma-ray Resistant Polypropylene Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Gamma-ray Resistant Polypropylene Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Gamma-ray Resistant Polypropylene Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Gamma-ray Resistant Polypropylene as of 2025)

Table 11. Global Market Gamma-ray Resistant Polypropylene Average Price (USD/KG) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Gamma-ray Resistant Polypropylene Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Gamma-ray Resistant Polypropylene Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Gamma-ray Resistant Polypropylene Sales by Type (K MT)

Table 27. Global Gamma-ray Resistant Polypropylene Market Size by Type (M USD)

Table 28. Global Gamma-ray Resistant Polypropylene Sales (K MT) by Type (2020-2025)

Table 29. Global Gamma-ray Resistant Polypropylene Sales Market Share by Type (2020-2025)

Table 30. Global Gamma-ray Resistant Polypropylene Market Size (M USD) by Type (2020-2025)

Table 31. Global Gamma-ray Resistant Polypropylene Market Share by Type (2020-2025)

Table 32. Global Gamma-ray Resistant Polypropylene Price (USD/KG) by Type (2020-2025)

Table 33. Global Gamma-ray Resistant Polypropylene Sales (K MT) by Application

Table 34. Global Gamma-ray Resistant Polypropylene Market Size by Application

Table 35. Global Gamma-ray Resistant Polypropylene Sales by Application (2020-2025) & (K MT)

Table 36. Global Gamma-ray Resistant Polypropylene Sales Market Share by Application (2020-2025)

Table 37. Global Gamma-ray Resistant Polypropylene Market Size by Application (2020-2025) & (M USD)

Table 38. Global Gamma-ray Resistant Polypropylene Market Share by Application (2020-2025)

Table 39. Global Gamma-ray Resistant Polypropylene Sales Growth Rate by Application (2020-2025)

Table 40. Global Gamma-ray Resistant Polypropylene Sales by Region (2020-2025) & (K MT)

Table 41. Global Gamma-ray Resistant Polypropylene Sales Market Share by Region (2020-2025)

Table 42. Global Gamma-ray Resistant Polypropylene Market Size by Region (2020-2025) & (M USD)

Table 43. Global Gamma-ray Resistant Polypropylene Market Size by Region (2020-2025)

Table 44. North America Gamma-ray Resistant Polypropylene Sales by Country (2020-2025) & (K MT)

Table 45. North America Gamma-ray Resistant Polypropylene Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Gamma-ray Resistant Polypropylene Sales by Country (2020-2025) & (K MT)

Table 47. Europe Gamma-ray Resistant Polypropylene Market Size by Country (2020-2025) & (M USD)

- Table 48. Asia Pacific Gamma-ray Resistant Polypropylene Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Gamma-ray Resistant Polypropylene Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Gamma-ray Resistant Polypropylene Sales by Country (2020-2025) & (K MT)
- Table 51. South America Gamma-ray Resistant Polypropylene Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Gamma-ray Resistant Polypropylene Sales by Region (2020-2025) & (K MT)
- Table 53. Middle East and Africa Gamma-ray Resistant Polypropylene Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Gamma-ray Resistant Polypropylene Production (K MT) by Region(2020-2025)
- Table 55. Global Gamma-ray Resistant Polypropylene Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Gamma-ray Resistant Polypropylene Revenue Market Share by Region (2020-2025)
- Table 57. Global Gamma-ray Resistant Polypropylene Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 58. North America Gamma-ray Resistant Polypropylene Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 59. Europe Gamma-ray Resistant Polypropylene Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 60. Japan Gamma-ray Resistant Polypropylene Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 61. China Gamma-ray Resistant Polypropylene Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)
- Table 62. ExxonMobil Basic Information
- Table 63. ExxonMobil Gamma-ray Resistant Polypropylene Product Overview
- Table 64. ExxonMobil Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 65. ExxonMobil Business Overview
- Table 66. ExxonMobil SWOT Analysis
- Table 67. ExxonMobil Recent Developments
- Table 68. Borealis Basic Information
- Table 69. Borealis Gamma-ray Resistant Polypropylene Product Overview
- Table 70. Borealis Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. Borealis Business Overview

Table 72. Borealis SWOT Analysis

Table 73. Borealis Recent Developments

Table 74. LCY Chemical Basic Information

Table 75. LCY Chemical Gamma-ray Resistant Polypropylene Product Overview

Table 76. LCY Chemical Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. LCY Chemical Business Overview

Table 78. LCY Chemical SWOT Analysis

Table 79. LCY Chemical Recent Developments

Table 80. Lyondellbasell Basic Information

Table 81. Lyondellbasell Gamma-ray Resistant Polypropylene Product Overview

Table 82. Lyondellbasell Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 83. Lyondellbasell Business Overview

Table 84. Lyondellbasell Recent Developments

Table 85. China Petrochemical Corporation Basic Information

Table 86. China Petrochemical Corporation Gamma-ray Resistant Polypropylene Product Overview

Table 87. China Petrochemical Corporation Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 88. China Petrochemical Corporation Business Overview

Table 89. China Petrochemical Corporation Recent Developments

Table 90. Sumitomo Chemical Basic Information

Table 91. Sumitomo Chemical Gamma-ray Resistant Polypropylene Product Overview

Table 92. Sumitomo Chemical Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 93. Sumitomo Chemical Business Overview

Table 94. Sumitomo Chemical Recent Developments

Table 95. TotalEnergies Basic Information

Table 96. TotalEnergies Gamma-ray Resistant Polypropylene Product Overview

Table 97. TotalEnergies Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 98. TotalEnergies Business Overview

Table 99. TotalEnergies Recent Developments

Table 100. Sibur Basic Information

Table 101. Sibur Gamma-ray Resistant Polypropylene Product Overview

Table 102. Sibur Gamma-ray Resistant Polypropylene Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 103. Sibur Business Overview

Table 104. Sibur Recent Developments

Table 105. Global Gamma-ray Resistant Polypropylene Sales Forecast by Region (2026-2035) & (K MT)

Table 106. Global Gamma-ray Resistant Polypropylene Market Size Forecast by Region (2026-2035) & (M USD)

Table 107. North America Gamma-ray Resistant Polypropylene Sales Forecast by Country (2026-2035) & (K MT)

Table 108. North America Gamma-ray Resistant Polypropylene Market Size Forecast by Country (2026-2035) & (M USD)

Table 109. Europe Gamma-ray Resistant Polypropylene Sales Forecast by Country (2026-2035) & (K MT)

Table 110. Europe Gamma-ray Resistant Polypropylene Market Size Forecast by Country (2026-2035) & (M USD)

Table 111. Asia Pacific Gamma-ray Resistant Polypropylene Sales Forecast by Region (2026-2035) & (K MT)

Table 112. Asia Pacific Gamma-ray Resistant Polypropylene Market Size Forecast by Region (2026-2035) & (M USD)

Table 113. South America Gamma-ray Resistant Polypropylene Sales Forecast by Country (2026-2035) & (K MT)

Table 114. South America Gamma-ray Resistant Polypropylene Market Size Forecast by Country (2026-2035) & (M USD)

Table 115. Middle East and Africa Gamma-ray Resistant Polypropylene Sales Forecast by Country (2026-2035) & (Units)

Table 116. Middle East and Africa Gamma-ray Resistant Polypropylene Market Size Forecast by Country (2026-2035) & (M USD)

Table 117. Global Gamma-ray Resistant Polypropylene Sales Forecast by Type (2026-2035) & (K MT)

Table 118. Global Gamma-ray Resistant Polypropylene Market Size Forecast by Type (2026-2035) & (M USD)

Table 119. Global Gamma-ray Resistant Polypropylene Price Forecast by Type (2026-2035) & (USD/KG)

Table 120. Global Gamma-ray Resistant Polypropylene Sales (K MT) Forecast by Application (2026-2035)

Table 121. Global Gamma-ray Resistant Polypropylene Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Gamma-ray Resistant Polypropylene
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Gamma-ray Resistant Polypropylene Market Size (M USD), 2025-2035
- Figure 5. Global Gamma-ray Resistant Polypropylene Market Size (M USD) (2020-2035)
- Figure 6. Global Gamma-ray Resistant Polypropylene Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Gamma-ray Resistant Polypropylene Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Gamma-ray Resistant Polypropylene Product Life Cycle
- Figure 13. Gamma-ray Resistant Polypropylene Sales Share by Manufacturers in 2025
- Figure 14. Global Gamma-ray Resistant Polypropylene Revenue Share by Manufacturers in 2025
- Figure 15. Gamma-ray Resistant Polypropylene Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Gamma-ray Resistant Polypropylene Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Gamma-ray Resistant Polypropylene Revenue in 2025
- Figure 18. Industry Chain Map of Gamma-ray Resistant Polypropylene
- Figure 19. Global Gamma-ray Resistant Polypropylene Market PEST Analysis
- Figure 20. Global Gamma-ray Resistant Polypropylene Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Gamma-ray Resistant Polypropylene Market Share by Type
- Figure 27. Sales Market Share of Gamma-ray Resistant Polypropylene by Type (2020-2025)
- Figure 28. Sales Market Share of Gamma-ray Resistant Polypropylene by Type in 2025

Figure 29. Market Share of Gamma-ray Resistant Polypropylene by Type (2020-2025)

Figure 30. Market Share of Gamma-ray Resistant Polypropylene by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Gamma-ray Resistant Polypropylene Market Share by Application

Figure 33. Global Gamma-ray Resistant Polypropylene Sales Market Share by Application (2020-2025)

Figure 34. Global Gamma-ray Resistant Polypropylene Sales Market Share by Application in 2025

Figure 35. Global Gamma-ray Resistant Polypropylene Market Share by Application (2020-2025)

Figure 36. Global Gamma-ray Resistant Polypropylene Market Share by Application in 2025

Figure 37. Global Gamma-ray Resistant Polypropylene Sales Growth Rate by Application (2020-2025)

Figure 38. Global Gamma-ray Resistant Polypropylene Sales Market Share by Region (2020-2025)

Figure 39. Global Gamma-ray Resistant Polypropylene Market Size by Region (2020-2025)

Figure 40. North America Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 41. North America Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 42. North America Gamma-ray Resistant Polypropylene Sales Market Share by Country in 2024

Figure 43. North America Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Gamma-ray Resistant Polypropylene Market Size by Country in 2024

Figure 45. U.S. Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 46. U.S. Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Gamma-ray Resistant Polypropylene Sales (K MT) and Growth Rate (2020-2025)

Figure 48. Canada Gamma-ray Resistant Polypropylene Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Gamma-ray Resistant Polypropylene Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Gamma-ray Resistant Polypropylene Market Size (Units) and Growth

Rate (2020-2025)

Figure 51. Europe Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 52. Europe Gamma-ray Resistant Polypropylene Sales Market Share by Country in 2024

Figure 53. Europe Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Gamma-ray Resistant Polypropylene Market Size by Country in 2024

Figure 55. Germany Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Gamma-ray Resistant Polypropylene Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Gamma-ray Resistant Polypropylene Sales Market Share by Region in 2024

Figure 67. Asia Pacific Gamma-ray Resistant Polypropylene Market Size by Region in 2024

Figure 68. China Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Gamma-ray Resistant Polypropylene Sales and Growth Rate

(2020-2025) & (K MT)

Figure 71. Japan Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Gamma-ray Resistant Polypropylene Sales and Growth Rate (K MT)

Figure 79. South America Gamma-ray Resistant Polypropylene Sales Market Share by Country in 2024

Figure 80. South America Gamma-ray Resistant Polypropylene Market Size and Growth Rate (M USD)

Figure 81. South America Gamma-ray Resistant Polypropylene Market Size by Country in 2024

Figure 82. Brazil Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Gamma-ray Resistant Polypropylene Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Gamma-ray Resistant Polypropylene Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Gamma-ray Resistant Polypropylene Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Gamma-ray Resistant Polypropylene Market Size by Region in 2024

Figure 92. Saudi Arabia Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Gamma-ray Resistant Polypropylene Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Gamma-ray Resistant Polypropylene Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Gamma-ray Resistant Polypropylene Production Market Share by Region (2020-2025)

Figure 103. North America Gamma-ray Resistant Polypropylene Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Gamma-ray Resistant Polypropylene Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Gamma-ray Resistant Polypropylene Production (K MT) Growth Rate (2020-2025)

Figure 106. China Gamma-ray Resistant Polypropylene Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Gamma-ray Resistant Polypropylene Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Gamma-ray Resistant Polypropylene Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Gamma-ray Resistant Polypropylene Sales Market Share Forecast

by Type (2026-2035)

Figure 110. Global Gamma-ray Resistant Polypropylene Market Share Forecast by Type (2026-2035)

Figure 111. Global Gamma-ray Resistant Polypropylene Sales Forecast by Application (2026-2035)

Figure 112. Global Gamma-ray Resistant Polypropylene Market Share Forecast by Application (2026-2035)

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