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Global Bio-based Polyamide 9T (PA9T) Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bio-based Polyamide 9T (PA9T) market size was valued at US$ million in 2025 and is forecast to a readjusted size of US$ million by 2032 with a CAGR of %during review period.

In 2025, global production of bio-based polyamide PA9T was approximately 480 tonnes, with an average global market price of around US$20,000 per tonne. That year, total global production capacity for bio-based polyamide PA9T reached approximately 600 tonnes. The average gross profit margin for the industry stood at about 18%. Bio-based polyamide PA9T is a semi-aromatic, high-temperature polyamide produced through salt formation, polycondensation, and modification, using monomers derived from renewable resources—specifically C9 diamines and/or bio-based terephthalic acid. It can also be classified within the families of long-chain polyterephthalamides and polyphthalamides (PPA). In the designation PA9T, the "9" signifies that the diamine unit typically contains nine carbon atoms, while the "T" represents the terephthalic acid unit; industrial-grade PA9T is generally synthesized via the polycondensation of terephthalic acid with 1,9-nonanediamine and certain branched C9 diamines. This material offers a combination of high heat resistance, low water absorption, chemical resistance, dimensional stability, and electrical insulation properties, making it suitable for high-temperature injection molding and lead-free reflow soldering environments.

The upstream segment of the bio-based PA9T value chain primarily comprises renewable raw materials—such as biomass sugars, vegetable oils, fatty acids, and lignocellulosic hydrolysates—along with core monomers like 1,9-nonanediamine, 2-methyl-1,8-octanediamine, and terephthalic acid. Potential production pathways involve generating C9 diacids, C9 diamines, and related intermediates through

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biological fermentation or chemo-biological hybrid processes, or synthesizing terephthalic acid from bio-based aromatic compounds. Currently, both bio-based terephthalic acid and bio-based C9 diamines face challenges regarding lengthy production routes, catalytic selectivity, purification costs, and insufficient large-scale supply; consequently, some bio-based PA9T products may only incorporate renewable carbon at the diamine end. In addition to monomers, upstream inputs include glass fibers, flame retardants, antioxidants, nucleating agents, lubricants, toughening agents, and colorants; factors such as monomer purity, moisture content, and ionic impurities directly impact the degree of polymerization, color, thermal stability, and electrical performance. While experimental synthesis routes for biomass-derived terephthalic acid exist, its large-scale commercial supply still lags significantly behind that of the petrochemical-based counterpart. The midstream of the industry chain comprises manufacturers of high-temperature polyamides, engineering plastic modification enterprises, and composite material suppliers; they are primarily responsible for processes such as monomer salt formation, prepolymerization, solid-state polymerization, melt polycondensation, pelletizing, and composite modification. Industrial production requires strict control over the ratio of C9 diamine to terephthalic acid, end-group concentration, molecular weight distribution, and thermal degradation; meanwhile, the incorporation of glass fibers, halogen-free flame retardants, or thermally conductive fillers enables the production of various grades, including unreinforced, glass-fiber reinforced, flame-retardant, wear-resistant, and thermally conductive variants. PA9T possesses a high melting point, with certain grades capable of withstanding lead-free reflow soldering and the high-temperature environments associated with automotive components; consequently, the processing window, equipment corrosion resistance, and mold temperature control present significant technical barriers. Bio-based products also require feedstock traceability, bio-based carbon content testing, mass balance certification, and product carbon footprint management to substantiate their renewable nature. Public data from Kuraray indicates that PA9T is characterized by low water absorption, high heat resistance, chemical resistance, and high dimensional stability, with a product portfolio ranging from unreinforced to glass-fiber reinforced and halogen-free flame-retardant grades. The downstream sector encompasses enterprises in automotive and new energy vehicles (NEVs), electrical and electronic equipment, connectors, consumer electronics, industrial machinery, fuel systems, and new energy equipment. In the electrical and electronics sector, PA9T is suitable for high-speed connectors, surface-mount components, coil bobbins, relays, switches, and high-temperature resistant insulation parts, where its low water absorption helps mitigate risks of blistering and dimensional changes during reflow soldering. In the automotive sector, it is used for fuel line components, cooling systems, thermal management parts, gears, pump housings, sensor casings, and insulation

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components for electric drive systems. In the new energy sector, applications extend to battery interconnects, charging systems, fuel cells, and components resistant to chemical fluids. Future market opportunities for bio-based PA9T are driven by trends such as automotive lightweighting, component miniaturization, lead-free soldering, NEV thermal management, and supply chain decarbonization; however, customers generally do not compromise on performance requirements solely due to bio-based attributes, meaning materials must still meet certifications for long-term heat resistance, flame retardancy, electrical safety, food contact, or automotive material standards. PA9T is currently used in automotive, electrical/electronic, and industrial components, while bio-based products are expected to be introduced first in high-end applications that have carbon reduction targets and are willing to pay a green premium.

PA9T is characterized by high heat resistance, low water absorption, chemical resistance, dimensional stability, and excellent electrical insulation, making it suitable for high-voltage connectors, relays, coil bobbins, camera modules, and surface-mount components. The shift toward higher voltage platforms and increased charging power in new energy vehicles (NEVs), alongside greater integration of automotive electronics, necessitates materials that maintain stable performance under conditions of high temperature, high humidity, and high voltage. While conventional PA9T is already being adopted for NEV high-voltage connectors, thermal management components, and cooling lines, bio-based PA9T—if it can match this performance—is well-positioned to meet the automotive industry's demands for decarbonization and material substitution.

Requirements from end-market companies regarding carbon reduction, renewable material procurement, and supply chain accounting are driving the development of PA9T toward bio-based and mass-balance pathways. Companies in the automotive, consumer electronics, and industrial equipment sectors are increasingly incorporating raw material carbon footprints into their procurement evaluations; consequently, high-performance engineering plastics must not only meet standards for heat resistance, flame retardancy, and reliability but also provide documentation on feedstock sources, renewable carbon content, and lifecycle emission reductions. Compared to constructing dedicated bio-based production facilities, the mass-balance approach allows for the integration of biomass or bio-circular feedstocks into existing polymerization and compounding systems, with renewable attributes allocated via certification; this makes it a likely primary pathway for the early commercialization of bio-based PA9T. However, the industry must clearly distinguish between physically bio-based monomer PA9T and mass-balance PA9T to avoid confusing product carbon attributes with actual chemical composition.

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The existing industrial ecosystem for PA9T already possesses mature technologies for polymerization, glass-fiber reinforcement, halogen-free flame retardancy, and high-flow modification. However, achieving true bio-based status requires introducing renewable carbon sources into the production of 1,9-nonanediamine, branched C9 diamines, or terephthalic acid. Key obstacles currently include complex bio-based monomer production routes, high purification costs, the tendency for impurities to affect polymerization degree and color, and a lack of stable, large-scale supply. Future technological efforts will focus on producing C9 diamines from vegetable oils or fermentation intermediates, terephthalic acid from biomass-derived aromatic compounds, and developing low-energy separation and continuous polymerization processes. In the short term, bio-based or mass-balance products offer greater practical feasibility, whereas fully bio-based PA9T requires further monomer scale-up and long-term customer validation. Bio-based PA9T is not expected to enter the price-sensitive commodity plastics market initially; instead, it will prioritize applications capable of absorbing a "green premium," such as connectors for new energy vehicles, precision electronic components, thermal management systems, fuel cells, and high-performance structural parts. Product development will expand from base resins to specialized grades—including glass-fiber reinforced, low-warp, halogen-free flame-retardant, high-CTI, hydrolysis-resistant, and thermally conductive variants—while simultaneously emphasizing designs that facilitate thin-walling, lightweighting, and recyclability.

Report Scope

This report is a detailed and comprehensive analysis for global Bio-based Polyamide 9T (PA9T) market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Bio-based Polyamide 9T (PA9T) market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

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Global Bio-based Polyamide 9T (PA9T) market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Bio-based Polyamide 9T (PA9T) market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Bio-based Polyamide 9T (PA9T) market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Bio-based Polyamide 9T (PA9T)

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Bio-based Polyamide 9T (PA9T) market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kuraray, Shanghai Genius Advanced Material, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Bio-based Polyamide 9T (PA9T) market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

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Market Segmentation

Market segment by Type

PA9T Homopolymer Grade

PA9T Copolymer Grade

PA9T Alloy Grade

PA9T Composite Grade

Market segment by Flame Retardancy

Non-flame-retardant Grade

HB Flame-retardant Grade

V-2 or V-1 Flame-retardant Grade

V-0 Flame-retardant Grade

Halogen-free Flame-retardant Grade

Market segment by Technical Route

Bio-based C9-diamine-type PA9T

Bio-based Terephthalic acid-type PA9T

Dual-monomer Bio-based PA9T

Market segment by Processing Method

Injection Molding Grade PA9T

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Extrusion Grade PA9T

Film Grade PA9T

Market segment by Application

Automotive

Electronics and Appliances

Aerospace

Others

Major players covered

Kuraray

Shanghai Genius Advanced Material

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

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Chapter Outline

Chapter 1, to describe Bio-based Polyamide 9T (PA9T) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-based Polyamide 9T (PA9T), with price, sales quantity, revenue, and global market share of Bio-based Polyamide 9T (PA9T) from 2021 to 2026.

Chapter 3, the Bio-based Polyamide 9T (PA9T) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-based Polyamide 9T (PA9T) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Bio-based Polyamide 9T (PA9T) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Bio-based Polyamide 9T (PA9T).

Chapter 14 and 15, to describe Bio-based Polyamide 9T (PA9T) sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Bio-based Polyamide 9T (PA9T) Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 PA9T Homopolymer Grade
  1.3.3 PA9T Copolymer Grade
  1.3.4 PA9T Alloy Grade
  1.3.5 PA9T Composite Grade
1.4 Market Analysis by Flame Retardancy
  1.4.1 Overview: Global Bio-based Polyamide 9T (PA9T) Consumption Value by Flame Retardancy: 2021 Versus 2025 Versus 2032
  1.4.2 Non-flame-retardant Grade
  1.4.3 HB Flame-retardant Grade
  1.4.4 V-2 or V-1 Flame-retardant Grade
  1.4.5 V-0 Flame-retardant Grade
  1.4.6 Halogen-free Flame-retardant Grade
1.5 Market Analysis by Technical Route
  1.5.1 Overview: Global Bio-based Polyamide 9T (PA9T) Consumption Value by Technical Route: 2021 Versus 2025 Versus 2032
  1.5.2 Bio-based C9-diamine-type PA9T
  1.5.3 Bio-based Terephthalic acid-type PA9T
  1.5.4 Dual-monomer Bio-based PA9T
1.6 Market Analysis by Processing Method
  1.6.1 Overview: Global Bio-based Polyamide 9T (PA9T) Consumption Value by Processing Method: 2021 Versus 2025 Versus 2032
  1.6.2 Injection Molding Grade PA9T
  1.6.3 Extrusion Grade PA9T
  1.6.4 Film Grade PA9T
1.7 Market Analysis by Application
  1.7.1 Overview: Global Bio-based Polyamide 9T (PA9T) Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.7.2 Automotive
  1.7.3 Electronics and Appliances
  1.7.4 Aerospace

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1.7.5 Others
1.8 Global Bio-based Polyamide 9T (PA9T) Market Size & Forecast
1.8.1 Global Bio-based Polyamide 9T (PA9T) Consumption Value (2021 & 2025 & 2032)
1.8.2 Global Bio-based Polyamide 9T (PA9T) Sales Quantity (2021-2032)
1.8.3 Global Bio-based Polyamide 9T (PA9T) Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Kuraray
2.1.1 Kuraray Details
2.1.2 Kuraray Major Business
2.1.3 Kuraray Bio-based Polyamide 9T (PA9T) Product and Services
2.1.4 Kuraray Bio-based Polyamide 9T (PA9T) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Kuraray Recent Developments/Updates
2.2 Shanghai Genius Advanced Material
2.2.1 Shanghai Genius Advanced Material Details
2.2.2 Shanghai Genius Advanced Material Major Business
2.2.3 Shanghai Genius Advanced Material Bio-based Polyamide 9T (PA9T) Product and Services
2.2.4 Shanghai Genius Advanced Material Bio-based Polyamide 9T (PA9T) Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Shanghai Genius Advanced Material Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: BIO-BASED POLYAMIDE 9T (PA9T) BY MANUFACTURER

3.1 Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Manufacturer (2021-2026)
3.2 Global Bio-based Polyamide 9T (PA9T) Revenue by Manufacturer (2021-2026)
3.3 Global Bio-based Polyamide 9T (PA9T) Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)
3.4.1 Producer Shipments of Bio-based Polyamide 9T (PA9T) by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Bio-based Polyamide 9T (PA9T) Manufacturer Market Share in 2025
3.4.3 Top 6 Bio-based Polyamide 9T (PA9T) Manufacturer Market Share in 2025
3.5 Bio-based Polyamide 9T (PA9T) Market: Overall Company Footprint Analysis
3.5.1 Bio-based Polyamide 9T (PA9T) Market: Region Footprint

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info@marketpublishers.com

3.5.2 Bio-based Polyamide 9T (PA9T) Market: Company Product Type Footprint
3.5.3 Bio-based Polyamide 9T (PA9T) Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Bio-based Polyamide 9T (PA9T) Market Size by Region
4.1.1 Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Region (2021-2032)
4.1.2 Global Bio-based Polyamide 9T (PA9T) Consumption Value by Region (2021-2032)
4.1.3 Global Bio-based Polyamide 9T (PA9T) Average Price by Region (2021-2032)
4.2 North America Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032)
4.3 Europe Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032)
4.4 Asia-Pacific Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032)
4.5 South America Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032)
4.6 Middle East & Africa Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2032)
5.2 Global Bio-based Polyamide 9T (PA9T) Consumption Value by Type (2021-2032)
5.3 Global Bio-based Polyamide 9T (PA9T) Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2032)
6.2 Global Bio-based Polyamide 9T (PA9T) Consumption Value by Application (2021-2032)
6.3 Global Bio-based Polyamide 9T (PA9T) Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2032)
7.2 North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2032)
7.3 North America Bio-based Polyamide 9T (PA9T) Market Size by Country

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7.3.1 North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2032)
7.3.2 North America Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2032)
7.3.3 United States Market Size and Forecast (2021-2032)
7.3.4 Canada Market Size and Forecast (2021-2032)
7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2032)
8.2 Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2032)
8.3 Europe Bio-based Polyamide 9T (PA9T) Market Size by Country
8.3.1 Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2032)
8.3.2 Europe Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2032)
8.3.3 Germany Market Size and Forecast (2021-2032)
8.3.4 France Market Size and Forecast (2021-2032)
8.3.5 United Kingdom Market Size and Forecast (2021-2032)
8.3.6 Russia Market Size and Forecast (2021-2032)
8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Bio-based Polyamide 9T (PA9T) Market Size by Region
9.3.1 Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific Bio-based Polyamide 9T (PA9T) Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

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10 SOUTH AMERICA

10.1 South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2032)
10.2 South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2032)
10.3 South America Bio-based Polyamide 9T (PA9T) Market Size by Country
  10.3.1 South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2032)
  10.3.2 South America Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2032)
  10.3.3 Brazil Market Size and Forecast (2021-2032)
  10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Bio-based Polyamide 9T (PA9T) Market Size by Country
  11.3.1 Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2032)
  11.3.2 Middle East & Africa Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2032)
  11.3.3 Turkey Market Size and Forecast (2021-2032)
  11.3.4 Egypt Market Size and Forecast (2021-2032)
  11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Bio-based Polyamide 9T (PA9T) Market Drivers
12.2 Bio-based Polyamide 9T (PA9T) Market Restraints
12.3 Bio-based Polyamide 9T (PA9T) Trends Analysis
12.4 Porters Five Forces Analysis
  12.4.1 Threat of New Entrants
  12.4.2 Bargaining Power of Suppliers
  12.4.3 Bargaining Power of Buyers

+357 96 030922
info@marketpublishers.com

12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Bio-based Polyamide 9T (PA9T) and Key Manufacturers
13.2 Manufacturing Costs Percentage of Bio-based Polyamide 9T (PA9T)
13.3 Bio-based Polyamide 9T (PA9T) Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 Bio-based Polyamide 9T (PA9T) Typical Distributors
14.3 Bio-based Polyamide 9T (PA9T) Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology
16.2 Research Process and Data Source
16.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Flame Retardancy, (USD Million), 2021 & 2025 & 2032
Table 3. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Technical Route, (USD Million), 2021 & 2025 & 2032
Table 4. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Processing Method, (USD Million), 2021 & 2025 & 2032
Table 5. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 6. Kuraray Basic Information, Manufacturing Base and Competitors
Table 7. Kuraray Major Business
Table 8. Kuraray Bio-based Polyamide 9T (PA9T) Product and Services
Table 9. Kuraray Bio-based Polyamide 9T (PA9T) Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 10. Kuraray Recent Developments/Updates
Table 11. Shanghai Genius Advanced Material Basic Information, Manufacturing Base and Competitors
Table 12. Shanghai Genius Advanced Material Major Business
Table 13. Shanghai Genius Advanced Material Bio-based Polyamide 9T (PA9T) Product and Services
Table 14. Shanghai Genius Advanced Material Bio-based Polyamide 9T (PA9T) Sales Quantity (Tons), Average Price (US$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 15. Shanghai Genius Advanced Material Recent Developments/Updates
Table 16. Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Manufacturer (2021-2026) & (Tons)
Table 17. Global Bio-based Polyamide 9T (PA9T) Revenue by Manufacturer (2021-2026) & (USD Million)
Table 18. Global Bio-based Polyamide 9T (PA9T) Average Price by Manufacturer (2021-2026) & (US$/Ton)
Table 19. Market Position of Manufacturers in Bio-based Polyamide 9T (PA9T), (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 20. Head Office and Bio-based Polyamide 9T (PA9T) Production Site of Key Manufacturer

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info@marketpublishers.com

Table 21. Bio-based Polyamide 9T (PA9T) Market: Company Product Type Footprint
Table 22. Bio-based Polyamide 9T (PA9T) Market: Company Product Application Footprint
Table 23. Bio-based Polyamide 9T (PA9T) New Market Entrants and Barriers to Market Entry
Table 24. Bio-based Polyamide 9T (PA9T) Mergers, Acquisition, Agreements, and Collaborations
Table 25. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 26. Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Region (2021-2026) & (Tons)
Table 27. Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Region (2027-2032) & (Tons)
Table 28. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Region (2021-2026) & (USD Million)
Table 29. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Region (2027-2032) & (USD Million)
Table 30. Global Bio-based Polyamide 9T (PA9T) Average Price by Region (2021-2026) & (US$/Ton)
Table 31. Global Bio-based Polyamide 9T (PA9T) Average Price by Region (2027-2032) & (US$/Ton)
Table 32. Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2026) & (Tons)
Table 33. Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2027-2032) & (Tons)
Table 34. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Type (2021-2026) & (USD Million)
Table 35. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Type (2027-2032) & (USD Million)
Table 36. Global Bio-based Polyamide 9T (PA9T) Average Price by Type (2021-2026) & (US$/Ton)
Table 37. Global Bio-based Polyamide 9T (PA9T) Average Price by Type (2027-2032) & (US$/Ton)
Table 38. Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2026) & (Tons)
Table 39. Global Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2027-2032) & (Tons)
Table 40. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Application (2021-2026) & (USD Million)

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Table 41. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Application (2027-2032) & (USD Million)
Table 42. Global Bio-based Polyamide 9T (PA9T) Average Price by Application (2021-2026) & (US$/Ton)
Table 43. Global Bio-based Polyamide 9T (PA9T) Average Price by Application (2027-2032) & (US$/Ton)
Table 44. North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2026) & (Tons)
Table 45. North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2027-2032) & (Tons)
Table 46. North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2026) & (Tons)
Table 47. North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2027-2032) & (Tons)
Table 48. North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2026) & (Tons)
Table 49. North America Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2027-2032) & (Tons)
Table 50. North America Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2026) & (USD Million)
Table 51. North America Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2027-2032) & (USD Million)
Table 52. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2026) & (Tons)
Table 53. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2027-2032) & (Tons)
Table 54. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2026) & (Tons)
Table 55. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2027-2032) & (Tons)
Table 56. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2026) & (Tons)
Table 57. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2027-2032) & (Tons)
Table 58. Europe Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2026) & (USD Million)
Table 59. Europe Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2027-2032) & (USD Million)
Table 60. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Type

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(2021-2026) & (Tons)
Table 61. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2027-2032) & (Tons)
Table 62. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2026) & (Tons)
Table 63. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2027-2032) & (Tons)
Table 64. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Region (2021-2026) & (Tons)
Table 65. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity by Region (2027-2032) & (Tons)
Table 66. Asia-Pacific Bio-based Polyamide 9T (PA9T) Consumption Value by Region (2021-2026) & (USD Million)
Table 67. Asia-Pacific Bio-based Polyamide 9T (PA9T) Consumption Value by Region (2027-2032) & (USD Million)
Table 68. South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2026) & (Tons)
Table 69. South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2027-2032) & (Tons)
Table 70. South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2026) & (Tons)
Table 71. South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2027-2032) & (Tons)
Table 72. South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2026) & (Tons)
Table 73. South America Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2027-2032) & (Tons)
Table 74. South America Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2026) & (USD Million)
Table 75. South America Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2027-2032) & (USD Million)
Table 76. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2021-2026) & (Tons)
Table 77. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Type (2027-2032) & (Tons)
Table 78. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2021-2026) & (Tons)
Table 79. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Application (2027-2032) & (Tons)

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Table 80. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2021-2026) & (Tons)
Table 81. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity by Country (2027-2032) & (Tons)
Table 82. Middle East & Africa Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2021-2026) & (USD Million)
Table 83. Middle East & Africa Bio-based Polyamide 9T (PA9T) Consumption Value by Country (2027-2032) & (USD Million)
Table 84. Bio-based Polyamide 9T (PA9T) Raw Material
Table 85. Key Manufacturers of Bio-based Polyamide 9T (PA9T) Raw Materials
Table 86. Bio-based Polyamide 9T (PA9T) Typical Distributors
Table 87. Bio-based Polyamide 9T (PA9T) Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Bio-based Polyamide 9T (PA9T) Picture
Figure 2. Global Bio-based Polyamide 9T (PA9T) Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Bio-based Polyamide 9T (PA9T) Revenue Market Share by Type in 2025
Figure 4. PA9T Homopolymer Grade Examples
Figure 5. PA9T Copolymer Grade Examples
Figure 6. PA9T Alloy Grade Examples
Figure 7. PA9T Composite Grade Examples
Figure 8. Global Bio-based Polyamide 9T (PA9T) Revenue by Flame Retardancy, (USD Million), 2021 & 2025 & 2032
Figure 9. Global Bio-based Polyamide 9T (PA9T) Revenue Market Share by Flame Retardancy in 2025
Figure 10. Non-flame-retardant Grade Examples
Figure 11. HB Flame-retardant Grade Examples
Figure 12. V-2 or V-1 Flame-retardant Grade Examples
Figure 13. V-0 Flame-retardant Grade Examples
Figure 14. Halogen-free Flame-retardant Grade Examples
Figure 15. Global Bio-based Polyamide 9T (PA9T) Revenue by Technical Route, (USD Million), 2021 & 2025 & 2032
Figure 16. Global Bio-based Polyamide 9T (PA9T) Revenue Market Share by Technical Route in 2025
Figure 17. Bio-based C9-diamine-type PA9T Examples
Figure 18. Bio-based Terephthalic acid-type PA9T Examples
Figure 19. Dual-monomer Bio-based PA9T Examples
Figure 20. Global Bio-based Polyamide 9T (PA9T) Revenue by Processing Method, (USD Million), 2021 & 2025 & 2032
Figure 21. Global Bio-based Polyamide 9T (PA9T) Revenue Market Share by Processing Method in 2025
Figure 22. Injection Molding Grade PA9T Examples
Figure 23. Extrusion Grade PA9T Examples
Figure 24. Film Grade PA9T Examples
Figure 25. Global Bio-based Polyamide 9T (PA9T) Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 26. Global Bio-based Polyamide 9T (PA9T) Revenue Market Share by

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Application in 2025
Figure 27. Automotive Examples
Figure 28. Electronics and Appliances Examples
Figure 29. Aerospace Examples
Figure 30. Others Examples
Figure 31. Global Bio-based Polyamide 9T (PA9T) Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 32. Global Bio-based Polyamide 9T (PA9T) Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 33. Global Bio-based Polyamide 9T (PA9T) Sales Quantity (2021-2032) & (Tons)
Figure 34. Global Bio-based Polyamide 9T (PA9T) Price (2021-2032) & (US$/Ton)
Figure 35. Global Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Manufacturer in 2025
Figure 36. Global Bio-based Polyamide 9T (PA9T) Revenue Market Share by Manufacturer in 2025
Figure 37. Producer Shipments of Bio-based Polyamide 9T (PA9T) by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 38. Top 3 Bio-based Polyamide 9T (PA9T) Manufacturer (Revenue) Market Share in 2025
Figure 39. Top 6 Bio-based Polyamide 9T (PA9T) Manufacturer (Revenue) Market Share in 2025
Figure 40. Global Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Region (2021-2032)
Figure 41. Global Bio-based Polyamide 9T (PA9T) Consumption Value Market Share by Region (2021-2032)
Figure 42. North America Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 43. Europe Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 44. Asia-Pacific Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 45. South America Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 46. Middle East & Africa Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 47. Global Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Type (2021-2032)
Figure 48. Global Bio-based Polyamide 9T (PA9T) Consumption Value Market Share by Type (2021-2032)

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Figure 49. Global Bio-based Polyamide 9T (PA9T) Average Price by Type (2021-2032) & (US$/Ton)
Figure 50. Global Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Application (2021-2032)
Figure 51. Global Bio-based Polyamide 9T (PA9T) Revenue Market Share by Application (2021-2032)
Figure 52. Global Bio-based Polyamide 9T (PA9T) Average Price by Application (2021-2032) & (US$/Ton)
Figure 53. North America Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Type (2021-2032)
Figure 54. North America Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Application (2021-2032)
Figure 55. North America Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Country (2021-2032)
Figure 56. North America Bio-based Polyamide 9T (PA9T) Consumption Value Market Share by Country (2021-2032)
Figure 57. United States Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 58. Canada Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 59. Mexico Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 60. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Type (2021-2032)
Figure 61. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Application (2021-2032)
Figure 62. Europe Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Country (2021-2032)
Figure 63. Europe Bio-based Polyamide 9T (PA9T) Consumption Value Market Share by Country (2021-2032)
Figure 64. Germany Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 65. France Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 66. United Kingdom Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 67. Russia Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 68. Italy Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) &

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(USD Million)
Figure 69. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Type (2021-2032)
Figure 70. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Application (2021-2032)
Figure 71. Asia-Pacific Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Region (2021-2032)
Figure 72. Asia-Pacific Bio-based Polyamide 9T (PA9T) Consumption Value Market Share by Region (2021-2032)
Figure 73. China Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 74. Japan Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 75. South Korea Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 76. India Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 77. Southeast Asia Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 78. Australia Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 79. South America Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Type (2021-2032)
Figure 80. South America Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Application (2021-2032)
Figure 81. South America Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Country (2021-2032)
Figure 82. South America Bio-based Polyamide 9T (PA9T) Consumption Value Market Share by Country (2021-2032)
Figure 83. Brazil Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 84. Argentina Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 85. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Type (2021-2032)
Figure 86. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Application (2021-2032)
Figure 87. Middle East & Africa Bio-based Polyamide 9T (PA9T) Sales Quantity Market Share by Country (2021-2032)

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Figure 88. Middle East & Africa Bio-based Polyamide 9T (PA9T) Consumption Value Market Share by Country (2021-2032)
Figure 89. Turkey Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 90. Egypt Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 91. Saudi Arabia Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 92. South Africa Bio-based Polyamide 9T (PA9T) Consumption Value (2021-2032) & (USD Million)
Figure 93. Bio-based Polyamide 9T (PA9T) Market Drivers
Figure 94. Bio-based Polyamide 9T (PA9T) Market Restraints
Figure 95. Bio-based Polyamide 9T (PA9T) Market Trends
Figure 96. Porters Five Forces Analysis
Figure 97. Manufacturing Cost Structure Analysis of Bio-based Polyamide 9T (PA9T) in 2025
Figure 98. Manufacturing Process Analysis of Bio-based Polyamide 9T (PA9T)
Figure 99. Bio-based Polyamide 9T (PA9T) Industrial Chain
Figure 100. Sales Channel: Direct to End-User vs Distributors
Figure 101. Direct Channel Pros & Cons
Figure 102. Indirect Channel Pros & Cons
Figure 103. Methodology
Figure 104. Research Process and Data Source

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