

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market Growth 2026-2032

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Abstracts

The global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market size is predicted to grow from US\$ 63.78 million in 2025 to US\$ 95.81 million in 2032; it is expected to grow at a CAGR of 6.0% from 2026 to 2032.

In 2025, global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material production reached approximately 1630 tons, with an average global market price of around US\$40 per kg.

Vehicle-mounted millimeter-wave radome absorbing materials are functional composite materials used in automotive millimeter-wave radar antenna radomes. They absorb, attenuate, or control the reflection of electromagnetic waves in specific frequency bands (typically 24GHz, 77GHz, and 79GHz millimeter waves), thereby reducing multipath interference, minimizing signal crosstalk, and optimizing radar signal transmittance. These materials are typically composed of a polymer matrix (such as PC, PP, ABS, TPU) and absorbing fillers (such as ferrite, carbon-based materials, conductive polymers, and metal oxides), and are applied to the radome structure through injection molding or coating processes. The core objective is to suppress non-target electromagnetic waves while ensuring structural strength, weather resistance, and wave transmission performance, thereby improving the detection accuracy and stability of ADAS and autonomous driving radar systems.

The upstream of vehicle-mounted millimeter-wave radar radome absorbing materials includes polymer resins (PC, ABS, PP, TPU), microwave-absorbing fillers (ferrites, carbon nanomaterials, carbon black, conductive metal powders), functional additives and masterbatches. Key raw materials include low-dielectric high-frequency resins, nano-scale magnetic particles, conductive fillers and surface modification agents.

Representative upstream companies include Covestro, SABIC, BASF, LG Chem, Toray, Cabot, 3M and Hitachi Metals. The midstream consists of radome and absorbing material processors responsible for material compounding, injection molding, electromagnetic tuning and radome structural design. The downstream includes OEM automakers and ADAS suppliers such as Tesla, BMW, Mercedes-Benz, Volkswagen, Toyota, NIO, XPeng, BYD, Bosch, ZF and Denso, where the materials are used in front radar, corner radar and autonomous driving sensing housings.

The vehicle-mounted millimeter-wave radar radome absorbing material market is currently in a growth stage driven by the accelerated penetration of ADAS and autonomous driving systems, and it is one of the more technologically intensive segments in automotive electronic materials. Current demand is mainly driven by the large-scale adoption of front-facing and corner radar systems, while the increasing use of 79GHz high-frequency radar further raises material performance requirements. Key trends include development toward low dielectric constant, high absorption efficiency, wideband response, lightweight design, multilayer composites and integrated injection molding structures, with deeper co-optimization alongside radar antenna design. Key growth drivers include higher levels of driving automation, increasing standardization of ADAS features, stricter vehicle safety regulations and the central role of radar sensing in autonomous driving systems. Major restraints include long material development cycles, complex performance validation, high automotive certification barriers, cost pressure and technological uncertainty from alternative sensing solutions such as LiDAR integration. Overall, future growth will be driven by the upgrade of high-frequency radar systems and broader adoption of autonomous driving technologies.

LP Information, Inc. (LPI) ' newest research report, the "Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Industry Forecast" looks at past sales and reviews total world Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material sales in 2025, providing a comprehensive analysis by region and market sector of projected Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material sales for 2026 through 2032. With Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material industry.

This Insight Report provides a comprehensive analysis of the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading

global companies with a focus on Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material.

This report presents a comprehensive overview, market shares, and growth opportunities of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Polymer-based Absorbing Materials

Carbon-based Absorbing Materials

Ferrite-based Composite Materials

Others

Segmentation by Frequency:

24 GHz

77 GHz

79 GHz

Others

Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Asahi Kasei

Avient

SABIC

Julong Science & Technology

Rhyton Technologies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market?

What factors are driving Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market opportunities vary by end market size?

How does Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material by Country/Region, 2021, 2025 & 2032

2.2 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Segment by Type

2.2.1 Polymer-based Absorbing Materials

2.2.2 Carbon-based Absorbing Materials

2.2.3 Ferrite-based Composite Materials

2.2.4 Others

2.2.5 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type

2.2.5.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Type (2021-2026)

2.2.5.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue and Market Share by Type (2021-2026)

2.2.5.3 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Price by Type (2021-2026)

2.3 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Segment by Frequency

2.3.1 24 GHz

2.3.2 77 GHz

2.3.3 79 GHz

2.3.4 Others

2.3.5 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Frequency

2.3.5.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Frequency (2021-2026)

2.3.5.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue and Market Share by Frequency (2021-2026)

2.3.5.3 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Price by Frequency (2021-2026)

2.4 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Segment by Application

2.4.1 Passenger Vehicles

2.4.2 Commercial Vehicles

2.4.3 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application

2.4.3.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Market Share by Application (2021-2026)

2.4.3.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue and Market Share by Application (2021-2026)

2.4.3.3 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Breakdown Data by Company

3.1.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Sales by Company (2021-2026)

3.1.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Company (2021-2026)

3.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Revenue by Company (2021-2026)

3.2.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Company (2021-2026)

3.2.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Company (2021-2026)

3.3 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale

Price by Company

3.4 Key Manufacturers Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Location Distribution

3.4.2 Players Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR VEHICLE-MOUNTED MILLIMETER-WAVE RADAR RADOME ABSORBING MATERIAL BY GEOGRAPHIC REGION

4.1 World Historic Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market Size by Geographic Region (2021-2026)

4.1.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market Size by Country/Region (2021-2026)

4.2.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Sales by Country/Region (2021-2026)

4.2.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Revenue by Country/Region (2021-2026)

4.3 Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Growth

4.4 APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Growth

4.5 Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Growth

4.6 Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Growth

5 AMERICAS

5.1 Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country

5.1.1 Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country (2021-2026)

5.1.2 Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Country (2021-2026)

5.2 Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026)

5.3 Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Region

6.1.1 APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Region (2021-2026)

6.1.2 APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Region (2021-2026)

6.2 APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026)

6.3 APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material by Country

7.1.1 Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country (2021-2026)

7.1.2 Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Country (2021-2026)

7.2 Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026)

7.3 Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material by Country

8.1.1 Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country (2021-2026)

8.1.2 Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Country (2021-2026)

8.2 Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026)

8.3 Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

10.3 Manufacturing Process Analysis of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

10.4 Industry Chain Structure of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Distributors

11.3 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Customer

12 WORLD FORECAST REVIEW FOR VEHICLE-MOUNTED MILLIMETER-WAVE RADAR RADOME ABSORBING MATERIAL BY GEOGRAPHIC REGION

12.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market Size Forecast by Region

12.1.1 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Forecast by Region (2027-2032)

12.1.2 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Forecast by Type (2027-2032)

12.7 Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Asahi Kasei

13.1.1 Asahi Kasei Company Information

13.1.2 Asahi Kasei Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

13.1.3 Asahi Kasei Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Asahi Kasei Main Business Overview

13.1.5 Asahi Kasei Latest Developments

13.2 Avient

13.2.1 Avient Company Information

13.2.2 Avient Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

13.2.3 Avient Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Avient Main Business Overview

13.2.5 Avient Latest Developments

13.3 SABIC

13.3.1 SABIC Company Information

13.3.2 SABIC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

13.3.3 SABIC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 SABIC Main Business Overview

13.3.5 SABIC Latest Developments

13.4 Julong Science & Technology

13.4.1 Julong Science & Technology Company Information

13.4.2 Julong Science & Technology Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

13.4.3 Julong Science & Technology Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Julong Science & Technology Main Business Overview

13.4.5 Julong Science & Technology Latest Developments

13.5 Rhyton Technologies

13.5.1 Rhyton Technologies Company Information

13.5.2 Rhyton Technologies Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

13.5.3 Rhyton Technologies Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Rhyton Technologies Main Business Overview

13.5.5 Rhyton Technologies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Polymer-based Absorbing Materials

Table 4. Major Players of Carbon-based Absorbing Materials

Table 5. Major Players of Ferrite-based Composite Materials

Table 6. Major Players of Others

Table 7. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026) & (kg)

Table 8. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Type (2021-2026)

Table 9. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Type (2021-2026)

Table 11. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Price by Type (2021-2026) & (US\$/kg)

Table 12. Major Players of 24 GHz

Table 13. Major Players of 77 GHz

Table 14. Major Players of 79 GHz

Table 15. Major Players of Others

Table 16. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Frequency (2021-2026) & (kg)

Table 17. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Frequency (2021-2026)

Table 18. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Frequency (2021-2026) & (\$ million)

Table 19. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Frequency (2021-2026)

Table 20. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Price by Frequency (2021-2026) & (US\$/kg)

Table 21. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale by Application (2021-2026) & (kg)

Table 22. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

Sale Market Share by Application (2021-2026)

Table 23. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Application (2021-2026) & (\$ million)

Table 24. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Application (2021-2026)

Table 25. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Price by Application (2021-2026) & (US\$/kg)

Table 26. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Company (2021-2026) & (kg)

Table 27. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Company (2021-2026)

Table 28. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Company (2021-2026) & (\$ millions)

Table 29. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Company (2021-2026)

Table 30. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Price by Company (2021-2026) & (US\$/kg)

Table 31. Key Manufacturers Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Producing Area Distribution and Sales Area

Table 32. Players Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Products Offered

Table 33. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 34. New Products and Potential Entrants

Table 35. Market M&A Activity & Strategy

Table 36. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Geographic Region (2021-2026) & (kg)

Table 37. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share Geographic Region (2021-2026)

Table 38. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 39. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Geographic Region (2021-2026)

Table 40. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country/Region (2021-2026) & (kg)

Table 41. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Country/Region (2021-2026)

Table 42. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Country/Region (2021-2026) & (\$ millions)

Table 43. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Country/Region (2021-2026)

Table 44. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country (2021-2026) & (kg)

Table 45. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Country (2021-2026)

Table 46. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Country (2021-2026) & (\$ millions)

Table 47. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026) & (kg)

Table 48. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026) & (kg)

Table 49. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Region (2021-2026) & (kg)

Table 50. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Region (2021-2026)

Table 51. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Region (2021-2026) & (\$ millions)

Table 52. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026) & (kg)

Table 53. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026) & (kg)

Table 54. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country (2021-2026) & (kg)

Table 55. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Country (2021-2026) & (\$ millions)

Table 56. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026) & (kg)

Table 57. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026) & (kg)

Table 58. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Country (2021-2026) & (kg)

Table 59. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Country (2021-2026)

Table 60. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Type (2021-2026) & (kg)

Table 61. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Application (2021-2026) & (kg)

Table 62. Key Market Drivers & Growth Opportunities of Vehicle-Mounted Millimeter-

Wave Radar Radome Absorbing Material

Table 63. Key Market Challenges & Risks of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

Table 64. Key Industry Trends of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

Table 65. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Raw Material

Table 66. Key Suppliers of Raw Materials

Table 67. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Distributors List

Table 68. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Customer List

Table 69. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Forecast by Region (2027-2032) & (kg)

Table 70. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 71. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Forecast by Country (2027-2032) & (kg)

Table 72. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 73. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Forecast by Region (2027-2032) & (kg)

Table 74. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Forecast by Country (2027-2032) & (kg)

Table 76. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Forecast by Country (2027-2032) & (kg)

Table 78. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 79. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Forecast by Type (2027-2032) & (kg)

Table 80. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 81. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Forecast by Application (2027-2032) & (kg)

Table 82. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 83. Asahi Kasei Basic Information, Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Manufacturing Base, Sales Area and Its Competitors

Table 84. Asahi Kasei Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

Table 85. Asahi Kasei Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 86. Asahi Kasei Main Business

Table 87. Asahi Kasei Latest Developments

Table 88. Avient Basic Information, Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Manufacturing Base, Sales Area and Its Competitors

Table 89. Avient Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

Table 90. Avient Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 91. Avient Main Business

Table 92. Avient Latest Developments

Table 93. SABIC Basic Information, Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Manufacturing Base, Sales Area and Its Competitors

Table 94. SABIC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

Table 95. SABIC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 96. SABIC Main Business

Table 97. SABIC Latest Developments

Table 98. Julong Science & Technology Basic Information, Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Manufacturing Base, Sales Area and Its Competitors

Table 99. Julong Science & Technology Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

Table 100. Julong Science & Technology Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 101. Julong Science & Technology Main Business

Table 102. Julong Science & Technology Latest Developments

Table 103. Rhyton Technologies Basic Information, Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Manufacturing Base, Sales Area and Its Competitors

Table 104. Rhyton Technologies Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Product Portfolios and Specifications

Table 105. Rhyton Technologies Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 106. Rhyton Technologies Main Business

Table 107. Rhyton Technologies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material
- Figure 2. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Country/Region (2025)
- Figure 10. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Polymer-based Absorbing Materials
- Figure 12. Product Picture of Carbon-based Absorbing Materials
- Figure 13. Product Picture of Ferrite-based Composite Materials
- Figure 14. Product Picture of Others
- Figure 15. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Type in 2026
- Figure 16. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Type (2021-2026)
- Figure 17. Product Picture of 24 GHz
- Figure 18. Product Picture of 77 GHz
- Figure 19. Product Picture of 79 GHz
- Figure 20. Product Picture of Others
- Figure 21. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Frequency in 2026
- Figure 22. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Frequency (2021-2026)
- Figure 23. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Consumed in Passenger Vehicles

Figure 24. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market: Passenger Vehicles (2021-2026) & (kg)

Figure 25. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Consumed in Commercial Vehicles

Figure 26. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market: Commercial Vehicles (2021-2026) & (kg)

Figure 27. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sale Market Share by Application (2025)

Figure 28. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Application in 2025

Figure 29. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales by Company in 2025 (kg)

Figure 30. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Company in 2025

Figure 31. Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue by Company in 2025 (\$ millions)

Figure 32. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Company in 2025

Figure 33. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Geographic Region (2021-2026)

Figure 34. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Geographic Region in 2025

Figure 35. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales 2021-2026 (kg)

Figure 36. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue 2021-2026 (\$ millions)

Figure 37. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales 2021-2026 (kg)

Figure 38. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue 2021-2026 (\$ millions)

Figure 39. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales 2021-2026 (kg)

Figure 40. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue 2021-2026 (\$ millions)

Figure 41. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales 2021-2026 (kg)

Figure 42. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue 2021-2026 (\$ millions)

Figure 43. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing

Material Sales Market Share by Country in 2025

Figure 44. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Country (2021-2026)

Figure 45. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Type (2021-2026)

Figure 46. Americas Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Application (2021-2026)

Figure 47. United States Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 48. Canada Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 49. Mexico Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 50. Brazil Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 51. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Region in 2025

Figure 52. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Region (2021-2026)

Figure 53. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Type (2021-2026)

Figure 54. APAC Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Application (2021-2026)

Figure 55. China Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 56. Japan Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 57. South Korea Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 58. Southeast Asia Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 59. India Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 60. Australia Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 61. China Taiwan Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 62. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Country in 2025

Figure 63. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share by Country (2021-2026)

Figure 64. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Type (2021-2026)

Figure 65. Europe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Application (2021-2026)

Figure 66. Germany Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 67. France Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 68. UK Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 69. Italy Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 70. Russia Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 71. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Country (2021-2026)

Figure 72. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Type (2021-2026)

Figure 73. Middle East & Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share by Application (2021-2026)

Figure 74. Egypt Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 75. South Africa Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 76. Israel Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 77. Turkey Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 78. GCC Countries Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Growth 2021-2026 (\$ millions)

Figure 79. Manufacturing Cost Structure Analysis of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material in 2026

Figure 80. Manufacturing Process Analysis of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

Figure 81. Industry Chain Structure of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

Figure 82. Channels of Distribution

Figure 83. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Forecast by Region (2027-2032)

Figure 84. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share Forecast by Region (2027-2032)

Figure 85. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share Forecast by Type (2027-2032)

Figure 86. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share Forecast by Type (2027-2032)

Figure 87. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Sales Market Share Forecast by Application (2027-2032)

Figure 88. Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Revenue Market Share Forecast by Application (2027-2032)

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