

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material 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 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market size was valued at US\$ 67.09 million in 2025 and is forecast to a readjusted size of US\$ 99 million by 2032 with a CAGR of 5.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material 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 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 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 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material

- 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 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material 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 Asahi Kasei, Avient, SABIC, Julong Science & Technology, Rhyton Technologies, etc.

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

Market Segmentation

Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material 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.

Market segment by Type

Polymer-based Absorbing Materials

Carbon-based Absorbing Materials

Ferrite-based Composite Materials

Others

Market segment by Frequency

24 GHz

77 GHz

79 GHz

Others

Market segment by Application

Passenger Vehicles

Commercial Vehicles

Major players covered

Asahi Kasei

Avient

SABIC

Julong Science & Technology

Rhyton Technologies

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material, with price, sales quantity, revenue, and global market share of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material from 2021 to 2026.

Chapter 3, the Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material 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 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material 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 Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material.

Chapter 14 and 15, to describe Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material sales channel, distributors, customers, research findings and conclusion.

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