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Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/G814978F7366EN.html
Date: August 2026
Pages: 91
Price: US$ 4,480.00 (Single User License)
ID: G814978F7366EN

Abstracts

The global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market size is expected to reach $ 99 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

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,

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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 studies the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material total

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production and demand, 2021-2032, (kg)
Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material total production value, 2021-2032, (USD Million)
Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)
Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material consumption by region & country, CAGR, 2021-2032 & (kg)
U.S. VS China: Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material domestic production, consumption, key domestic manufacturers and share
Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)
Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)
Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (kg) and average price (US$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

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Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market, Segmentation by Type:

Polymer-based Absorbing Materials

Carbon-based Absorbing Materials

Ferrite-based Composite Materials

Others

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market, Segmentation by Frequency:

24 GHz

77 GHz

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79 GHz

Others

Global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

Asahi Kasei

Avient

SABIC

Julong Science & Technology

Rhyton Technologies

Key Questions Answered:
1. How big is the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market?
2. What is the demand of the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market?
3. What is the year over year growth of the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market?
4. What is the production and production value of the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market?
5. Who are the key producers in the global Vehicle-Mounted Millimeter-Wave Radar Radome Absorbing Material market?
6. What are the growth factors driving the market demand?

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