

Global ADAS Radar Cover Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global ADAS Radar Cover Materials market size is expected to reach \$ 571 million by 2032, rising at a market growth of 18.0% CAGR during the forecast period (2026-2032).

ADAS Radar Cover Materials are low-dielectric, low-loss, or electromagnetic wave-absorbing functional materials used in automotive millimeter-wave radar radomes, rear covers, absorbing inserts, radar-emblem structures, and bumper transmission regions. These materials typically include modified PBT, PC/ABS, PC/PBT, modified PPE, PPS, PA, and composite systems. They are required to maintain stable electromagnetic wave transmission, low reflection, low warpage, weather resistance, hydrolysis resistance, chemical resistance, and dimensional stability under radar frequency bands such as 24 GHz, 77/79 GHz, or 76-81 GHz. They must also be compatible with injection molding, dual-shot molding, laser welding, surface decoration, and OEM validation processes. These materials are widely used in ADAS systems such as AEB, ACC, BSD, LCA, parking assistance, and 4D imaging radar. The overall gross margin is approximately 42%.

Downstream demand is primarily driven by stricter automotive active safety regulations, increased penetration of Level 2 and above assisted driving systems, adoption of 4D imaging radar, and the rising number of radar units per vehicle. Radar sensors are increasingly integrated into logos, bumpers, front compartments, and vehicle corners. As a result, materials must not only meet structural and aesthetic requirements but also minimize signal attenuation, reflection, ghosting, and interference caused by obstacles, thereby reducing false detection risks. This is accelerating the transition from conventional exterior plastics to automotive-grade functional materials with verified electromagnetic performance.

Product development is focused on low dielectric constant (Dk) and low dielectric loss (Df) transmission materials, radar-compatible PBT/PC alloys, low-dielectric PPE systems, thermoplastic radar-absorbing materials, EMI shielding composites, and grades suitable for dual-shot molding and laser welding. Leading suppliers are developing materials targeting 77/79 GHz frequency bands with ultra-thin walls, low warpage, hydrolysis resistance, salt spray resistance, paintability, and batch-to-batch consistency. Material selection is increasingly shifting from purely mechanical performance metrics to a closed-loop validation system covering material samples, component-level testing, and full-vehicle electromagnetic performance evaluation.

The supply landscape remains dominated by global engineering plastics and specialty materials companies such as BASF, SABIC, LANXESS, Asahi Kasei, Envalior, Covestro, and Mitsubishi Chemical Group. These companies benefit from extensive automotive qualification experience and established material databases. Chinese suppliers are gaining entry opportunities in thermoplastic radar-absorbing materials, modified PP/PC/PA systems, and localized supply chains, but still need to strengthen capabilities in dielectric consistency, complex exterior structure simulation, surface finishing compatibility, long-term aging performance, and Tier 1/OEM qualification cycles.

This report studies the global ADAS Radar Cover Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for ADAS Radar Cover Materials 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 ADAS Radar Cover Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

- Global ADAS Radar Cover Materials total production and demand, 2021-2032, (kg)
- Global ADAS Radar Cover Materials total production value, 2021-2032, (USD Million)
- Global ADAS Radar Cover Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)
- Global ADAS Radar Cover Materials consumption by region & country, CAGR, 2021-2032 & (kg)
- U.S. VS China: ADAS Radar Cover Materials domestic production, consumption, key domestic manufacturers and share

Global ADAS Radar Cover Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global ADAS Radar Cover Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global ADAS Radar Cover Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global ADAS Radar Cover Materials 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 BASF, SABIC, LANXESS, Asahi Kasei, Envalior, Celanese, Covestro, Mitsubishi Chemical, Polyplastics, RTP Company, 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 ADAS Radar Cover Materials 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.

Global ADAS Radar Cover Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global ADAS Radar Cover Materials Market, Segmentation by Type:

Modified PBT Compounds

PC and PC Alloy Materials

Modified PPE Compounds

PPS and High-Temperature Engineering Plastics

Composite and Bio-Based Radar Cover Materials

Other Materials

Global ADAS Radar Cover Materials Market, Segmentation by Functional Positioning:

Functional Radar Materials

Functional Structural Materials

Functional Surface Materials

Decorative Materials Without Special Function

Other Materials

Global ADAS Radar Cover Materials Market, Segmentation by Radar Frequency Band:

24 GHz Radar Materials

77/79 GHz Radar Materials

76-81 GHz Broadband Materials

Multi-Band Radar Materials

Other Frequency Bands

Global ADAS Radar Cover Materials Market, Segmentation by Component Position:

Front Radome/Cover Materials

Back Cover/Housing Materials

Radar Emblem/Exterior Cover Materials

Absorber/Insert Materials

Bumper Cover Compatible Materials

Other Positions

Global ADAS Radar Cover Materials Market, Segmentation by Application:

Front Perception and Collision Avoidance

Side Monitoring and Lane Change Assist

Rear Monitoring and Cross-Traffic Alert

Parking and Low-Speed Assist

4D Imaging Radar Perception

Other ADAS Radar Applications

Companies Profiled:

BASF

SABIC

LANXESS

Asahi Kasei

Envalior

Celanese

Covestro

Mitsubishi Chemical

Polyplastics

RTP Company

Nanjing Julong

Key Questions Answered:

1. How big is the global ADAS Radar Cover Materials market?
2. What is the demand of the global ADAS Radar Cover Materials market?
3. What is the year over year growth of the global ADAS Radar Cover Materials market?
4. What is the production and production value of the global ADAS Radar Cover Materials market?
5. Who are the key producers in the global ADAS Radar Cover Materials market?
6. What are the growth factors driving the market demand?

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