

Global Automotive Black Glass Enamel Market Growth 2026-2032

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Abstracts

The global Automotive Black Glass Enamel market size is predicted to grow from US\$ 286 million in 2025 to US\$ 419 million in 2032; it is expected to grow at a CAGR of 7.9% from 2026 to 2032.

Global sales of automotive black glass enamel reached 9205 tons in 2025, with an average price of \$31.73 per kg.

Automotive black glass enamel refers to a series of black glaze dots or areas on the edges and surface of automotive glass. These are ceramic materials that fuse with the glass after high-temperature firing. Their main functions are to ensure even heating, protect sealing strips, block strong light, and conceal sensors in high-end vehicles, rather than decoration. Furthermore, their manufacturing process is complex, and high-quality black frost cannot be removed.

The 'functional powder' of lead-free black glass enamel accounts for 65-80% of the formula, and is composed of Bi₂O₃-SiO₂-ZnO-B₂O₃ series glass powder (D50=1.5 μm) and 20-25% inorganic black pigment (Cu-Cr-Mn or Fe-Cr-Co oxides). The organic carrier comprises 17-34%, which is ethyl cellulose/rosin resin dissolved in solvents such as propylene glycol methyl ether acetate, used for screen printing flowability and drying strength. In the overall raw material cost, bismuth oxide and ultrafine black pigment account for more than 60%, organic carrier and microcrystalline additives account for 15%, and the remainder is for energy consumption, labor, and equipment depreciation. Due to the large fluctuations in bismuth prices, the price of commercially available lead-free black glaze paste is still about 20-30% higher than that of lead-containing systems, but it can meet the stringent requirements of acid resistance (40 h) and thermal expansion coefficient (85-95) × 10⁻⁶ /°C for complete vehicle assembly.

Regionally, the Asia-Pacific market is the primary market, accounting for approximately 47% of the global market.

The automotive black glass enamel industry has a relatively stable and concentrated production structure. Major manufacturers include Fenzi Group, Vibrantz Technologies, Jiangsu Baifu, Torrecid, and Pemco. In 2025, Fenzi Group was the global market leader, holding a 23% global revenue market share. Automotive black glass enamel manufacturers leverage their cost and brand advantages to extend downstream in the industry chain through independent R&D or mergers and acquisitions, increasing product added value, expanding sales channels, and seeking performance growth and production transformation.

Automotive black glass enamel can be divided into tempered and hot-bent types. Hot-bent automotive black glass enamel is generally used for laminated windshields or other applications requiring hot bending/lamination, while tempered automotive black glass enamel is mainly used for single-pane tempered glass such as rear windshields, side windows, and some sunroofs. Tempered glass enamel accounts for the majority, representing approximately 58% of the total market in 2025. The application of black enamel on automotive glass is mainly in the OEM and aftermarket sectors. Almost all key glass components in every new car require black enamel, including the windshield, rear window, side windows, and some sunroofs; the aftermarket primarily replaces damaged parts. OEMs are the main application, and by 2025, they will account for 80% of the total market.

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

This Insight Report provides a comprehensive analysis of the global Automotive Black Glass Enamel 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 Automotive Black Glass Enamel portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique

position in an accelerating global Automotive Black Glass Enamel market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Black Glass Enamel 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 Automotive Black Glass Enamel.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive Black Glass Enamel market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hot Bending Type

Tempered Type

Segmentation by Environmental Properties:

Lead Containing

Lead Free

Segmentation by Functional Parts:

Windshield

Side and Rear Windows

Sunroof

Segmentation by Application:

OEM

Aftermarket

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.

Fenzi Group

Vibrantz Technologies

Torrecid

Akcoat

Pemco

Japan Belleview

Jiangsu Baifu Technology

Sokan New Materials Group

Kunshan Belleview Application Materials

Shenzhen Octopus Group

Chengguang (Changzhou) New Materials Technology

Zibo Opal Ceramic&Glass Tech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Black Glass Enamel market?

What factors are driving Automotive Black Glass Enamel market growth, globally and by region?

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

How do Automotive Black Glass Enamel market opportunities vary by end market size?

How does Automotive Black Glass Enamel break out by Type, by Application?

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