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Global Automotive Black Glass Enamel Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Black Glass Enamel market size is expected to reach $ 430 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).
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 Bi?O?-SiO?-ZnO-B?O? series glass powder (D50?1.5 ?m) 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?? /? for complete vehicle assembly.

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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.

This report studies the global Automotive Black Glass Enamel production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Black Glass Enamel 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 Automotive Black Glass Enamel that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Automotive Black Glass Enamel total production and demand, 2021-2032, (Tons)
Global Automotive Black Glass Enamel total production value, 2021-2032, (USD Million)
Global Automotive Black Glass Enamel production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

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Global Automotive Black Glass Enamel consumption by region & country, CAGR, 2021-2032 & (Tons)
U.S. VS China: Automotive Black Glass Enamel domestic production, consumption, key domestic manufacturers and share
Global Automotive Black Glass Enamel production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)
Global Automotive Black Glass Enamel production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)
Global Automotive Black Glass Enamel production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Automotive Black Glass Enamel 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 Fenzi Group, Vibrantz Technologies, Torrecid, Akcoat, Pemco, Japan Belleview, Jiangsu Baifu Technology, Sokan New Materials Group, Kunshan Belleview Application Materials, Shenzhen Octopus Group, 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 Automotive Black Glass Enamel market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) 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 Automotive Black Glass Enamel Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Black Glass Enamel Market, Segmentation by Type:

Hot Bending Type

Tempered Type

Global Automotive Black Glass Enamel Market, Segmentation by Environmental Properties:

Lead Containing

Lead Free

Global Automotive Black Glass Enamel Market, Segmentation by Functional Parts:

Windshield

Side and Rear Windows

Sunroof

Global Automotive Black Glass Enamel Market, Segmentation by Application:

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OEM

Aftermarket

Companies Profiled:

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 Answered:
1. How big is the global Automotive Black Glass Enamel market?
2. What is the demand of the global Automotive Black Glass Enamel market?
3. What is the year over year growth of the global Automotive Black Glass Enamel market?
4. What is the production and production value of the global Automotive Black Glass Enamel market?

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5. Who are the key producers in the global Automotive Black Glass Enamel market?
6. What are the growth factors driving the market demand?

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