

Global Automotive Black Glass Enamel 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 Automotive Black Glass Enamel market size was valued at US\$ 301 million in 2025 and is forecast to a readjusted size of US\$ 430 million by 2032 with a CAGR of 7.4% during review period.

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 ?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.

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 is a detailed and comprehensive analysis for global Automotive Black Glass Enamel 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 Automotive Black Glass Enamel market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton),

2021-2032

Global Automotive Black Glass Enamel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Automotive Black Glass Enamel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Automotive Black Glass Enamel market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 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 Automotive Black Glass Enamel

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 Automotive Black Glass Enamel 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 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.

Market Segmentation

Automotive Black Glass Enamel 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

Hot Bending Type

Tempered Type

Market segment by Environmental Properties

Lead Containing

Lead Free

Market segment by Functional Parts

Windshield

Side and Rear Windows

Sunroof

Market segment by Application

OEM

Aftermarket

Major players covered

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

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 Automotive Black Glass Enamel product scope, market

overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Black Glass Enamel, with price, sales quantity, revenue, and global market share of Automotive Black Glass Enamel from 2021 to 2026.

Chapter 3, the Automotive Black Glass Enamel competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Black Glass Enamel 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 Automotive Black Glass Enamel 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 Automotive Black Glass Enamel.

Chapter 14 and 15, to describe Automotive Black Glass Enamel sales channel, distributors, customers, research findings and conclusion.

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