

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors market size is expected to reach \$ 169 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032).

Halogen-Free Flame-Retardant, Hydrolysis-Resistant PBT for High-Voltage Connectors is an injection-molding-grade modified engineering plastic based on polybutylene terephthalate (PBT). It is compounded with halogen-free flame-retardant systems, glass fibers, hydrolysis stabilizers, impact modifiers, and color masterbatches. It is primarily used in new energy vehicle high-voltage connectors, charging interfaces, battery disconnect units (BDU), battery pack electrical connections, and high-voltage components in energy storage systems. This material typically requires UL 94 V-0 flame retardancy, high CTI (comparative tracking index), high dielectric strength, stable mechanical properties after humid heat aging, low outgassing, low electrocorrosion, excellent dimensional stability, and long-term thermal stability of orange coloration, ensuring electrical insulation safety under high-voltage, high-humidity, and compact structural conditions. The overall gross margin is approximately 42%.

Demand for high-voltage connector materials is increasing in line with the upgrading of high-voltage platforms, fast-charging systems, and energy storage electrical systems in new energy vehicles. As connectors evolve toward miniaturization and higher voltage levels, materials must not only meet flame-retardant requirements but also maintain stable insulation performance under high temperature, high humidity, strong current loads, and long-term thermal aging. As a result, halogen-free flame retardancy, hydrolysis resistance, and high CTI performance have become core value propositions for next-generation PBT grades.

On the supply side, both global engineering plastic suppliers and leading Chinese modified plastics manufacturers are actively developing this segment. Companies such as Envalior, BASF, and Celanese continue to launch dedicated PBT grades for high-voltage connectors and e-mobility electrical components. Their focus is on improving the compatibility between halogen-free flame-retardant systems and hydrolysis resistance while achieving stable orange coloration, low electrocorrosion, low extractables, and thin-wall UL 94 V-0 performance, enabling qualification in OEM and connector manufacturer validation systems.

Future growth opportunities are mainly driven by 800V fast-charging platforms, hybrid 48V systems, charging infrastructure, and energy storage high-voltage applications. This segment typically involves long qualification cycles, with stringent requirements on UL Yellow Card certification, USCAR humid-heat testing, color consistency, and long-term supply stability. Suppliers with strong material development capabilities, automotive-grade validation experience, and localized delivery support are more likely to secure incremental design wins.

This report studies the global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors 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 Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors total production and demand, 2021-2032, (kg)

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors total production value, 2021-2032, (USD Million)

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors domestic production, consumption, key domestic manufacturers and share

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors 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 Envalior, BASF, Celanese, SABIC, Polyplastics, Toray, Mitsubishi Chemical, Kingfa, BGF EcoMaterials, NUREL, 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 Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors 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 Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors Market, Segmentation by Type:

GF15 and Below

GF20-GF25

GF30

GF35 and Above

Other

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors Market, Segmentation by Flame Retardancy Rating:

UL 94 V-0 at 0.4 mm

UL 94 V-0 at 0.75-0.8 mm

UL 94 V-0 at 1.5 mm

5VA or Glow-Wire Grades

Other

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors Market, Segmentation by Tracking Resistance Grade:

CTI 600 V

CTI 400-599 V

CTI Below 400 V

Other

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors Market, Segmentation by Hydrolysis Resistance Level:

USCAR Class 4 and Above

USCAR Class 3

85°C/85% RH Stable Grades

General Hydrolysis-Resistant Grades

Other

Global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors Market, Segmentation by Application:

EV High-Voltage Connectors

Charging Infrastructure Connectors

Battery Pack and BDU Parts

Power Electronics and OBC Parts

Energy Storage High-Voltage Connectors

Other E&E Insulation Parts

Companies Profiled:

Envalior

BASF

Celanese

SABIC

Polyplastics

Toray

Mitsubishi Chemical

Kingfa

BGF EcoMaterials

NUREL

Key Questions Answered:

1. How big is the global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors market?
2. What is the demand of the global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors market?
3. What is the year over year growth of the global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors market?
4. What is the production and production value of the global Halogen-Free Flame-

Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors market?

5. Who are the key producers in the global Halogen-Free Flame-Retardant Hydrolysis-Resistant PBT for High-Voltage Connectors market?

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