

Automotive Polycarbonate Glazing Market (By Vehicle Type – Passenger Cars, Light Commercial Vehicles. By Application – Panoramic Roof, Rear Windows, Front Windsheild, Side Windows. By Plastic Compound – Polycarbonates (PC), Polyvinyl Butyral (PVB) – Global Industry Analysis, Size, Share, Growth, Trends and Forecast, 2016 – 2025

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Abstracts

Automotive polycarbonate glazing shows a high growth potential along with the rise in demand of vehicles across the world. Polycarbonates are plastics which have polymers containing chemical carbonate groups. In the automotive sector, Polycarbonate materials are generally used in window or glazing installation. Polycarbonate materials are transparent glass having high thermal resistance. The use of polycarbonate reduces vehicle weight which in turn improves the vehicles fuel efficiency. Moreover, in recent days the increase in pollution level as creates the demand for reduced fuel consumption and energy efficiency acting as the driving factor for adoption of polycarbonate glazing in the automotive sector. Furthermore, the rise in demand for light weight materials and the market growth for automotive sunroofs have flourished the growth for global automotive polycarbonate glazing market. Thus polycarbonate glazing helps in creating a massive potential market for various applications and most of the automotive companies to adapt the technology in the coming years.

According to the market structure, globally the automotive polycarbonate glazing market is valued at US\$ 1.49 Billion in 2016, having a strong growth rate at 16.5% CAGR that is projected till 2025. Automotive polycarbonate glazing market has been on a growing stage throughout the forecast period. This technology offers wide range of benefits to automobile companies as well as the vehicle owners due to its light weight that

improves the fuel efficiency of vehicles. Polycarbonates (PC) and Polyvinyl Butyral (PVB) are the two major plastic compounds that are being used in glazing or window application. Apart from just light weighting polycarbonate glazing has improved functionality and increased design freedom that have gained a huge importance among automotive OEM (Original Equipment Manufacturer) while choosing materials. The reduced vehicle weight as well as reduction in carbon dioxide emissions by application of polycarbonate is expected to create a huge growth opportunities during the forecast period of 2016-2025.

Major applications of automotive polycarbonate glazing covered in report are Panoramic roof, Rear windows, front windshield, and side windows. The report has been segmented by glass type into two different categories such as laminated glass and tempered glass. Further down the report is segmented by plastic compound that is categorized into two parts such as polycarbonates (PC) and polyvinyl butyral (PVB) and lastly by vehicle type that are passenger car and light commercial vehicles.

Polycarbonate glazing technology will be one of the major trends to gain traction in this market in the upcoming years. In automobile industry the polycarbonate glazing is a new kind of technology to achieve vehicle weight reduction which results in better vehicles fuel efficiency. Further down, the polycarbonate compounds offers higher grade mechanical properties and along with improved design freedom. The most commonly used glazing materials are the laminated glass and the tempered glass which holds a major share in the glazing applications. However, apart from this, there are also some downsides with this automotive polycarbonate glazing market. Firstly, they are not scratch resistant. Secondly, the polycarbonates needs to be coated with a coating material to make it scratch proof which in turn rises the cost of automotive polycarbonate glazing thus hampering their promotion in the automotive sector.

Some of the major players in the automotive polycarbonate glazing market are Covestro AG, Webasto SE, Freeglass GmbH & Co.KG, Saudi Basic Industries Corp., Mitsubishi Engineering – Plastics Corporation, CHI MEI Corporation, Trinseo S.A., Teijin Limited, and Krd Sicherheitstechnik GmbH among others.

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