

Global Polymer Dispersed Liquid Crystal (PDLC) Smart Glass Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/G1D614320409EN.html>

Date: October 2025

Pages: 83

Price: US\$ 3,132.00 (Single User License)

ID: G1D614320409EN

Abstracts

According to our (Global Info Research) latest study, the global Polymer Dispersed Liquid Crystal (PDLC) Smart Glass market size was valued at US\$ 123 million in 2024 and is forecast to a readjusted size of USD 166 million by 2031 with a CAGR of 4.4% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Polymer dispersed liquid crystal (PDLC) color-changing glass is a new type of dimming glass material developed in the past decade. Its principle is that liquid crystal is dispersed in an organic solid polymer matrix in the form of micron-sized droplets. Since the optical axis of the small droplets composed of liquid crystal molecules is in a free orientation, its refractive index does not match the refractive index of the matrix. When light passes through the matrix, it is strongly scattered by the microdroplets and appears in an opaque milky white state or translucent state. Applying an electric field can adjust the optical axis orientation of the liquid crystal droplets. When the refractive indices of the two match, they will appear transparent. When the electric field is removed, the liquid crystal droplets return to their original astigmatism state, thereby displaying. The technology of PDLC color-changing glass is relatively mature and widely used. Currently, it is mostly used in construction of commercial places.

In recent years, the energy conservation and environmental protection industry, with its huge industrial driving role, economic radiation effect and social ecological benefits, has increasingly become a new economic growth point that major developed countries in

the world focus on cultivating and vigorously developing.

Polymer dispersed liquid crystal smart glass can reduce the energy requirements for heating and cooling in buildings equipped with color-changing glass, which is in line with people's pursuit of technical and environmental protection.

This report is a detailed and comprehensive analysis for global Polymer Dispersed Liquid Crystal (PDLC) Smart Glass 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 Polymer Dispersed Liquid Crystal (PDLC) Smart Glass market size and forecasts, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (US\$/Sq.m), 2020-2031

Global Polymer Dispersed Liquid Crystal (PDLC) Smart Glass market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (US\$/Sq.m), 2020-2031

Global Polymer Dispersed Liquid Crystal (PDLC) Smart Glass market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sq.m), and average selling prices (US\$/Sq.m), 2020-2031

Global Polymer Dispersed Liquid Crystal (PDLC) Smart Glass market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sq.m), and ASP (US\$/Sq.m), 2020-2025

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 Polymer Dispersed Liquid Crystal (PDLC) Smart Glass
- 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 Polymer Dispersed Liquid Crystal (PDLC) Smart Glass 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 Gauzy Ltd., Polytronix, Inc., Smartglass International Limited, Vision Systems, Beijing All Brilliant Technology Co.,Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Polymer Dispersed Liquid Crystal (PDLC) Smart Glass market is split by Type and by Application. For the period 2020-2031, 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

Single Layer Liquid Crystal Film

Multilayer Liquid Crystal Film

Market segment by Application

Office Building

Hotel & Apartment

Hospital

Airport

Automobile

Aviation

Ship

Rail Transport

Others

Major players covered

Gauzy Ltd.

Polytronix, Inc.

Smartglass International Limited

Vision Systems

Beijing All Brilliant Technology Co.,Ltd

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 Polymer Dispersed Liquid Crystal (PDLC) Smart Glass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polymer Dispersed Liquid Crystal (PDLC) Smart Glass, with price, sales quantity, revenue, and global market share of Polymer Dispersed Liquid Crystal (PDLC) Smart Glass from 2020 to 2025.

Chapter 3, the Polymer Dispersed Liquid Crystal (PDLC) Smart Glass competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Polymer Dispersed Liquid Crystal (PDLC) Smart Glass breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Polymer Dispersed Liquid Crystal (PDLC) Smart Glass market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Polymer Dispersed Liquid Crystal (PDLC) Smart Glass.

Chapter 14 and 15, to describe Polymer Dispersed Liquid Crystal (PDLC) Smart Glass sales channel, distributors, customers, research findings and conclusion.

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