

Global Polymer?Dispersed Liquid Crystals (PDLCs) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/P16EA3C30A61EN.html>

Date: July 2025

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: P16EA3C30A61EN

Abstracts

According to our (Global Info Research) latest study, the global Polymer?Dispersed Liquid Crystals (PDLCs) market size was valued at US\$ 109 million in 2024 and is forecast to a readjusted size of USD 191 million by 2031 with a CAGR of 8.4% during review period.

Polymer-dispersed liquid crystals (PDLCs) are a relatively new class of materials that hold promise for many applications ranging from switchable windows to projection displays. These materials, which are simply a combined application of polymers and liquid crystals, are the focus of extensive research in the display industry.

Polymer Dispersed Liquid Crystal (PDLC) are a type of smart film that change their transparency in response to an electrical impulse. When inactive the liquid crystals are randomly arranged, thus scattering the light as it permeates the screen, which results in the translucent, milky appearance of the assembly. When however a voltage is applied, an electrical field is created between the two electrodes, which causes the liquid crystals to align, allowing light to pass through and essentially turning the screen transparent.

Polymer?dispersed liquid crystals is mainly classified into Three types: Scattering PDLCs, Nano-PDLCs and Polymer Network Liquid Crystals. And Scattering PDLCs are the most widely used type which takes up about 88% of the global total in 2019 in terms of sales. Chin, USA, Japan, Korea are now the key producers of polymer?dispersed liquid crystals. The high-quality products are mainly supplied by overseas producers. Mainly due to the perfect upstream supply and downstream glass manufacturing industry.

This report is a detailed and comprehensive analysis for global Polymer?Dispersed Liquid Crystals (PDLCs) 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 Crystals (PDLCs) 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 Crystals (PDLCs) 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 Crystals (PDLCs) 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 Crystals (PDLCs) 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 Crystals (PDLCs)
To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Polymer?Dispersed Liquid Crystals (PDLCs) 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 DMDisplay, IRISFILM, Smart Films International, Unite Glass, Inno Glass, Toppan Printing, Singyes

New Materials, Benq Materials, Times Zhiguang, Huake-Tek, etc.

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

Market Segmentation

Polymer?Dispersed Liquid Crystals (PDLCs) 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

Scattering PDLCs

Nano-PDLCs

Polymer Network Liquid Crystals

Market segment by Application

Building Materials

Transportation Industry

Display Industry

Others

Major players covered

DMDisplay

IRISFILM

Smart Films International

Unite Glass

Inno Glass

Toppan Printing

Singyes New Materials

Benq Materials

Times Zhiguang

Huake-Tek

Jiangxi Kewei

Guangzhou T-Photon Technology

Chiefway

Magic-film

Guangzhou Huichi

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 Crystals (PDLCs) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Polymer?Dispersed Liquid Crystals (PDLCs), with price, sales quantity, revenue, and global market share of Polymer?Dispersed Liquid Crystals (PDLCs) from 2020 to 2025.

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

Chapter 4, the Polymer?Dispersed Liquid Crystals (PDLCs) 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 Crystals (PDLCs) 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 Crystals (PDLCs).

Chapter 14 and 15, to describe Polymer?Dispersed Liquid Crystals (PDLCs) sales channel, distributors, customers, research findings and conclusion.

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