

Global Medical Grade Polycaprolactone (PCL) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Medical Grade Polycaprolactone (PCL) market size was valued at US\$ 43.6 million in 2024 and is forecast to a readjusted size of USD 77.6 million by 2031 with a CAGR of 8.2% 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.

Polycaprolactone (PCL) is a long-term biodegradable polyester with a low melting point of around 60°C and a glass transition temperature of about 76°C. PCL is prepared by ring-opening polymerization of ϵ -caprolactone and is FDA approved for drug delivery devices and as adhesion barriers. PCL is highly soluble in chlorinated hydrocarbons and can be used for thermal processing like extrusion, fiber spinning, injection molding and 3D-printing.

As a biodegradable polyester material, medical-grade polycaprolactone (PCL) has shown broad application prospects in the medical field due to its excellent biocompatibility, controllable degradability and mechanical properties.

In the global medical-grade PCL market, Ingevity, Daicel and Hunan Juren occupy the main market share. The core applications of medical-grade PCL include drug sustained-release systems, tissue engineering scaffolds, medical beauty regeneration materials and medical consumables (radiotherapy positioning mask), etc. The technical development direction focuses on personalized medicine and 3D printing (such as

implantable PCL microspheres), composite biomaterials (such as PCL and hydroxyapatite composite scaffolds to shorten bone repair time by 30%), intelligence (pH-sensitive PCL to achieve precise drug release) and green manufacturing.

This report is a detailed and comprehensive analysis for global Medical Grade Polycaprolactone (PCL) 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 Medical Grade Polycaprolactone (PCL) market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Medical Grade Polycaprolactone (PCL) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Medical Grade Polycaprolactone (PCL) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2020-2031

Global Medical Grade Polycaprolactone (PCL) market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 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 Medical Grade Polycaprolactone (PCL)
- 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 Medical Grade Polycaprolactone (PCL) 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 Ingevity, Daicel, Evonik, Corbion, Hunan Juren Chemical Hitechnology, eSUNMED, Shenzhen Polymtek Biomaterial, Sinopec Hunan Petrochemical, Weibo (Shenzhen), etc.

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

Market Segmentation

Medical Grade Polycaprolactone (PCL) 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

Ordinary Polycaprolactone

Polycaprolactone Microspheres

Market segment by Application

Medical Device

Medical Beauty

Drug Sustained Release

Others

Major players covered

Ingevity

Daicel

Evonik

Corbion

Hunan Juren Chemical Hitechnology

eSUNMED

Shenzhen Polymtek Biomaterial

Sinopec Hunan Petrochemical

Weibo (Shenzhen)

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 Medical Grade Polycaprolactone (PCL) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Medical Grade Polycaprolactone (PCL), with price, sales quantity, revenue, and global market share of Medical Grade Polycaprolactone (PCL) from 2020 to 2025.

Chapter 3, the Medical Grade Polycaprolactone (PCL) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Medical Grade Polycaprolactone (PCL) 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 Medical Grade Polycaprolactone (PCL) 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 Medical Grade Polycaprolactone (PCL).

Chapter 14 and 15, to describe Medical Grade Polycaprolactone (PCL) sales channel, distributors, customers, research findings and conclusion.

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