

# Polycaprolactone Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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## Abstracts

The global polycaprolactone market size reached US\$ 556 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,001 Million by 2028, exhibiting a growth rate (CAGR) of 10.3% during 2022-2028.

Polycaprolactone (PCL) is a fossil-based, biodegradable and semicrystalline polyester used for thermal processing and 3-Dimensional bioprinting. It is commonly available in the form of pellets, nanospheres and microspheres, which are non-toxic in nature and breaks down into organic components upon exposed to heat, moisture and microorganisms. It is produced using ring-opening polymerization and polycondensation of carboxylic acid methods and exhibit high solubility in organic solvents and low melting point. PCL is commonly used as an additive in resins and for manufacturing jewelry and models and prototypes of products, medical devices, automotive components and construction materials. It is also widely utilized for the production of coatings, adhesives, sealants and elastomers.

Polycaprolactone Market Trends:

Significant growth in the medical industry across the globe is one of the key factors creating a positive outlook for the market. PCL is widely used for the manufacturing of medical-grade orthopedic, dental and surgical implants, drug delivery devices, wound dressing tapes, tissue engineering and regenerative medicine systems. Moreover, the widespread adoption of PCL in the formulation of thermoplastic polyurethane is providing a thrust to the market growth. It exhibits superior hydrophobic properties, resistance to oil, chemical and ultraviolet (UV) rays. It is also used as a polymeric plasticizer to polyvinyl chloride (PVC) to increase its elasticity. Additionally, various product innovations and the utilization of PCL in the construction industry as a noise insulation material for walls, roofs, doors and windows are acting as other growth-inducing factors. In line with this, the rising demand for environment-friendly and cost-

effective materials for sealing and encapsulating pressure-sensitive microelectronic components is anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global polycaprolactone market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on form, production method and application.

Breakup by Form:

Pellets

Nanosphere

Microsphere

Breakup by Production Method:

Ring Opening Polymerization

Polycondensation of Carboxylic Acid

Breakup by Application:

Coating and Thermoplastic Polyurethane

Healthcare

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BASF SE, Corbion N.V., Daicel Corporation, Haihang Industry, Merck KGaA, Perstorp Holding AB, Polysciences Inc, Shenzhen Esun Industrial Co.Ltd and Shenzhen Polymtek Biomaterial Co. Ltd.

Key Questions Answered in This Report

1. How big is the global polycaprolactone market?
2. What is the expected growth rate of the global polycaprolactone market during 2023-2028?
3. What are the key factors driving the global polycaprolactone market?
4. What has been the impact of COVID-19 on the global polycaprolactone market?
5. What is the breakup of the global polycaprolactone market based on the form?
6. What is the breakup of the global polycaprolactone market based on the production method?
7. What is the breakup of the global polycaprolactone market based on the application?
8. What are the key regions in the global polycaprolactone market?
9. Who are the key players/companies in the global polycaprolactone market?

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