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Polycaprolactone Market Research Report – Forecast till 2030

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Description:

Polycaprolactone Market overview

Polycaprolactone Market was valued at USD 370.42 billion 2018 and is projected to register a CAGR of over 10.00% during the review period. Polycaprolactone is biodegradable polyester, and it is produced by ring-opening polymerization of e-caprolactone and is one of the most frequent uses of polycaprolactone including the production of thermoplastic polyurethane, it is also used as an additive in the resin to boost its processing characteristics to magnify its end-user applications. Polycaprolactone is an environment-friendly element, that is biodegradable in nature, and is progressively adopted in the health care industries as a cost-effective product specifically in tissue engineering. The global polycaprolactone is a biodegradable polymer, which is used in the manufacturing of thermoplastic polyurethane. As of 2020, the global market for polycaprolactone has not observed any challenging factor, however, an increase in demand for polycaprolactone polyps in similar applications may create challenges during the forecast period.

Segmentation

The polycaprolactone market has been segmented on the basis of form, production method, application, and region.

Based on form, the market has been segmented into pellets, nanosphere, and microsphere.

On the basis of production method, the market has been segmented into ring opening polymerization and polycondensation of carboxylic acid.

By application, the global market has been segmented into thermoplastic polyurethane, healthcare, and others.

Key Players

Some of the key players operating in the global polycaprolactone market are

- Perstorp Holding AB (Sweden),
- Daicel Corporation (Japan),
- Shenzhen Esun Industrial Co., Ltd (China),
- Corbion (the Netherlands),
- BASF SE (Germany),
- Merck KGaA (Germany),
- · Polysciences, Inc. (US),
- · Haihang Group (China),
- Shenzhen Polymtek Biomaterial Co., Ltd (China)
- Durect Corporation (US).

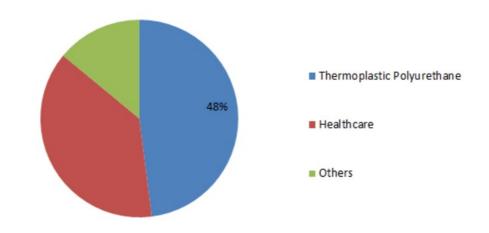
Market OverviewThe growth of the global polycaprolactone market is driven by the extensive use of polycaprolactone in the manufacturing of polyurethane and thermoplastic polyurethane. This is because it exhibits good oil, fuel, and solvent resistance as well as excellent flexibility and toughness. The growing use of thermoplastic polyurethane in major end-use industries such as automotive, construction, and packaging is one of the major factors influencing the growth of the global polycaprolactone market. The growth of the global market is also driven by the growing use of polycaprolactone in the healthcare sector for applications such as drug delivery, wound care management, sutures, wound dressing tape, tissue engineering, orthopedic, and dental implants. The biodegradable nature of the product, its non-toxicity, and biocompatibility are factors increasing their use in the sector. Furthermore, it is added as a polymeric plasticizer to polyvinyl chloride to increase its flexibility. It also can be used in re-moldable plastic on account of its low softening point.

The extensive research and development on polycaprolactone blend to reduce the cost and improve biodegradability by mixing starch and other low-cost organic fillers is expected to create lucrative opportunities for manufacturers operating in the global market.

The manufacturers are focusing on strategic growth initiatives such as joint ventures, product development, and mergers & acquisitions. For instance, in May 2018, Perstorp AB, a global leading specialty chemicals company announced to form a joint venture named ElogioAM with 3D4Makers, a high-performance 3D printing filament producer, to develop new material solutions for the additive manufacturing industry. ElogioAM will offer the world's first fifth-generation 3D filament, Facilan, which enables applications previously unobtainable in the medical, fashion, orthotics, and advanced prototyping. The Facilan portfolio also consists of Facilan PCL 100, which is a pure polycaprolactone filament that is being used by researchers in artificial muscles, drug-loaded implants, scaffolds, and smart materials.

However, the high cost of polycaprolactone and availability of low-cost substitutes are factors expected to hamper the global market growth during the forecast period.

Global Polycaprolactone Market 2018, by Application (%)



Source: MRFR Analysis

Regional Analysis

The global polycaprolactone market has been segmented into five regions, namely Asia-Pacific, North America, Europe, Latin America, and the Middle East & Africa.

Asia-Pacific accounted for a major market share in 2018, on account of the high use of thermoplastic polyurethane in major end-use industries such as automotive, construction, and packaging. The growth of the construction sector in the region is attributed to rapid urbanization and industrialization. Furthermore, the rising disposable income has increased the sale of automobiles in the region, which is expected to propel the demand for thermoplastic polyurethane, which and consequently boost the demand for polycaprolactone. The European and North American markets are expected to witness significant growth during the forecast period on account of the high demand for surgical equipment and biodegradable products. Increasing use of the product in modeling and splinting of prototyping systems and as feedstock is expected to boost the product demand in the coming years. Moreover, the use of polyurethane and thermoplastic polyurethane in the automotive and construction industries is projected to fuel the demand for the product in these regions.

Segmentation

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Recent Development

A report about the polycaprolactone market provides an extensive qualitative and quantitative analysis of the current trends and future estimation of the world polycaprolactone market from 2018 to 2026 to discover the prevailing opportunities. The report culminations the ley drivers, opportunities, and resistance of the market along with the impact analyses during the forecast period. Coming up with the market scenarios in terms of growth rate, the industry-standard accuracy in analysis, and high data integrity, the report makes a brilliant attempt to unveil key opportunities available in the global market for polycaprolactone to help players in achieving a strong market position. Consumers of the report can access verified and reliable market strong

forecasts, as well as those for the overall size of the market regarding revenue.

Intended Audience

- Polycaprolactone Manufacturers
- Traders and Distributors of Polycaprolactone
- · Research and Development Institutes
- Potential Investors
- Raw Material Suppliers

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