

Thermoplastic Composites Market by Resin Type (Polypropylene, Polyamide, Polyetheretherketone, Hybrid), Fiber Type (Glass, Carbon, Mineral), Product Type (SFT, LFT, CFT, GMT), End-Use Industry, and Region - Global Forecast to 2025

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Abstracts

“The thermoplastic composites market is projected to register a CAGR of 7.5% during the forecast period.”

The global thermoplastic composites market size is projected to grow from USD 22.2 billion in 2020 to USD 31.8 billion by 2025, at a CAGR of 7.5% between 2020 and 2025. Composites offer exceptional properties, such as stiffness, strength, tenacity, density, thermal & electrical conductivity, fatigue, and corrosion resistance. Owing to these outstanding properties offered by the composites, they are preferred over conventional materials such as aluminum steel in high performance applications in several end-use industries. However, global pandemic disease COVID-19 has forced the automotive, wind blade, and aircraft manufacturers to shut down their operations, which is expected to decrease the demand for composites in 2020.

“Carbon fiber thermoplastic composites are the fastest-growing fiber type of thermoplastic composites market in terms of value.”

Carbon fiber thermoplastic composites are projected to register the highest CAGR in terms of value between 2020 and 2025. Carbon fiber is twice as strong, and 30% lighter compared to glass and natural fiber and has been used in high end applications to offer FST properties, light weight, corrosion resistance, and high strength. However, due to COVID-19, carbon fiber thermoplastic composites production and demand have reduced. It is expected that advancement in carbon fiber manufacturing and a decrease

in crude oil prices would result in a reduction of carbon fiber thermoplastic composites prices. This, in turn, would bolster the growth and penetration of carbon fiber thermoplastic composites in various end-use industries.

“PEEK is the fastest-growing resin type of thermoplastic composites, in terms of value.”

PEEK based thermoplastic composites have high demand in the aerospace & defense, automotive, and medical industries. PEEK resin offers extreme toughness and high environmental and fire resistance properties. PEEK resin-based thermoplastic composites offer improved thermal stability in high-temperature applications and are resistant to chemicals and fatigue environments. Their carbon fiber reinforcement grade offers a high level of rigidity and creep strength. However, due to COVID-19 and prices increase, the demand for PEEK is expected to fall in 2020 and would recover after the stabilization in the global economy.

“Long fiber thermoplastic (LFT) is expected to witness highest CAGR in the thermoplastic composites market in terms of value.”

LFT is expected to register the highest growth during forecast period owing to moderate cost and comparable superior with CFT. LFT bridges the cost gap and performance properties between SFT and CFT. LFT majorly employs glass and carbon fibers that are compatible with wide range of thermoplastic composites. Thus there is a high demand for LFT from various end-use industries in the thermoplastic composites market. Due to COVID-19, there is a decreased demand for LFT in wind energy, consumer goods & electronics, construction, transportation, and aerospace & defense industries. The recovery in these industries post COVID-19 pandemic would restore the demand for LFT.

“Aerospace & Defense is the fastest-growing end-use industry of composites, in terms of value.”

The aerospace & defense industry would register the highest CAGR in terms of value during the forecast period due to increasing demand for interior applications in the aircraft. The thermoplastic composites offer properties such as light weight, increased fuel efficiency, FST properties, corrosion resistance, and ability to mold into different and complex shapes. Thus, the growth of thermoplastic composites is the highest in aerospace & defense industry. Due to COVID-19, there is a fall in demand for thermoplastic composites from commercial aircraft manufacturers. However, the demand would gain pace with the stimulus packages announced by the government for

recovery in the aerospace industry.

“APAC is the fastest-growing composites market.”

APAC is projected to register the highest CAGR in terms of value in the global thermoplastic composites market during the forecast period. The growth of the thermoplastic composites industry in this region is supported by the low-cost labor, the advancement of thermoplastic composite technology solutions, and the penetration of thermoplastic composites in various end-use industries.

Due to COVID-19, numerous wind blade manufacturers and automotive companies have halted their production sites across various countries that has led to reduced demand for thermoplastic composites in Asian countries. The recovery in the end-use industries with restoration in the supply chain would drive the thermoplastic composites demand during the forecast period.

This study has been validated through primaries conducted with various industry experts, globally. These primary sources have been divided into the following three categories:

By Company Type- Tier 1- 40%, Tier 2- 33%, and Tier 3- 27%

By Designation- C Level- 50%, Director Level- 20%, and Others- 30%

By Region- North America- 20%, Europe- 50%, APAC- 15%, Latin America-5%, MEA-10%,

The report provides a comprehensive analysis of company profiles listed below:

BASF SE (Germany)

Celanese Corporation (US)

SABIC (Saudi Arabia)

DowDuPont Inc. (US)

Koninklijke DSM N.V. (Netherlands)

Toray Industries, Inc. (Japan)

Lanxess AG (Germany)

Mitsubishi Chemical Holdings Corporation (Japan)

SGL Group (Germany)

Solvay (Belgium)

Research Coverage

This report covers the global composites market and forecasts the market size until 2024. The report includes the market segmentation – Fiber Type (Glass, Carbon, Mineral and Other), Resin Type (PA, PP, PEEK, Hybrid, Others), Product Type (SFT, LFT, CFT, GMT), End-use Industry (Aerospace & Defense, Wind Energy, Transportation, Construction, Consumer goods & electronics, Sports & leisure, and Others) and Region (Europe, North America, APAC, Latin America, and MEA). Porter's Five Forces analysis, along with the drivers, restraints, opportunities, and challenges, are discussed in the report. It also provides company profiles and competitive strategies adopted by the major players in the global composites market.

Key benefits of buying the report:

The report will help market leaders/new entrants in this market in the following ways:

1. This report segments the global thermoplastic composites market comprehensively and provides the closest approximations of the revenues for the overall market and the sub-segments across different verticals and regions.
2. The report helps stakeholders understand the pulse of the thermoplastic composites market and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to better their position in their businesses. The competitive landscape section includes the competitor ecosystem, new product development, agreement, and acquisitions.

Reasons to buy the report:

The report will help market leaders/new entrants in this market by providing them with the closest approximations of the revenues for the overall thermoplastic composites market and the sub-segments. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way. The report will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

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