

PEEK Implants – A Global Market Overview

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Abstracts

PEEK Implants Market Trends and Outlook

Polyetheretherketone (PEEK) implants are gaining traction in various medical applications because of their superior mechanical strength, chemical resistance, biocompatibility, and lightweight design. These implants have low radiographic imaging artifacts and are perfect for customized applications using additive manufacturing, improving surgical results and patient comfort. PEEK closely resembles the modulus of cortical bone during spine surgery, which lessens issues like sinking and helps monitor healing. Arthroplasties for the knee and hip are among its orthopedic uses, which improve joint performance and weight distribution.

Additionally, PEEK offers a safer substitute for cardiovascular treatments. It is valued in dentistry for its strength and aesthetic features in removable partial dentures. Its use is anticipated to grow as PEEK advancements continue, establishing its position as a prominent alternative to titanium implants across various medical fields. The global market for PEEK Implants is estimated at US\$0.9 billion in 2024 and is expected to register a CAGR of 8.5% during the 2024-2030 analysis period and stand at a projected US\$1.5 billion by 2030.

The PEEK implant market is influenced by several key drivers, including its biocompatibility and material properties, which make it a preferred choice for various surgical applications. The growing demand for non-metallic implants, particularly in dental and spinal surgeries, is propelling PEEK's popularity due to its reduced risk of allergic reactions and enhanced patient comfort. Additionally, technological advancements in 3D printing are enabling the creation of customized PEEK implants, improving surgical precision and patient outcomes. The rising number of spinal and orthopedic surgeries among aging populations further boosts demand for these implants. Strategic collaborations between manufacturers and research institutions are

fostering innovation and expanding the market's reach.

PEEK Implants Regional Market Analysis

In 2024, North America dominated the global market for PEEK implants, holding an estimated 41.8% share of revenue, fueled by increasing orthopedic disorders, prominent industry players, and government initiatives for innovative products. The region benefits from an advanced healthcare infrastructure, regulatory support, rising investments in specialized healthcare services, and a growing acceptance of PEEK implants, further driving market growth. Conversely, the Asia-Pacific region is projected to experience the highest CAGR of 9.8% during the analysis period 2024-2030, driven by a rise in traffic accidents, an increase in orthopedic conditions, and the growth of medical tourism in countries like India, China, and Thailand. Greater awareness of the advantages of PEEK and the adoption of advanced healthcare technologies are additionally enhancing market expansion. Improved healthcare infrastructure and investments in specialized facilities also contribute to ongoing growth.

PEEK Implants Market Analysis by Product Type

The spinal implants segment led the PEEK implant market, representing around 38% of the market share in 2024, fueled by the increasing incidence of spinal disorders and the need for minimally invasive surgical options. PEEK spinal implants are preferred due to their outstanding mechanical characteristics and compatibility with biological tissues, which improve bone growth and fusion. In contrast, the dental implant segment is expected to record the fastest CAGR of 10% during the forecast period 2024-2030, attributed to PEEK's distinctive features like biocompatibility, radiolucency, and robust mechanical properties. These characteristics enable precise imaging during post-surgery assessments and reduce the risk of adverse reactions, making PEEK an ideal choice for dental uses. Furthermore, dentists are increasingly choosing PEEK abutments due to their lower chance of causing allergic reactions.

PEEK Implants Market Analysis by End-User

The hospitals segment is anticipated to capture the largest share of the PEEK implants end-user market, holding a market share of 57.9% in 2024 due to the high number of surgeries performed in these facilities. Hospitals offer a wide range of medical services through collaborative teams of healthcare professionals, which enables efficient patient assessment and treatment. This demand is further driven by increasing awareness of their advantages and the necessity for innovative devices that improve patient

outcomes while reducing healthcare expenses. PEEK implants are biocompatible, which reduces the chances of rejection and adverse reactions, making them a safer option for patients. Conversely, the ambulatory surgical centers (ASCs) segment is expected to achieve the highest compound annual growth rate (CAGR) of 9.4% during the analysis period from 2024 to 2030, fueled by the growing need for outpatient procedures and shorter hospital stays.

PEEK Implants Market Report Scope

This global report on PEEK Implants analyzes the market based on product type, and end-users. In addition to providing profiles of major companies operating in this space, the latest corporate and industrial developments have been covered to offer a clear panorama of how and where the market is progressing.

Key Metrics

Historical Period: 2021-2023

Base Year: 2023

Forecast Period: 2024-2030

Units: Value market in US\$

Companies Mentioned: 10+

PEEK Implants Market by Geographic Region

North America (The United States, Canada, and Mexico)

Europe (Germany, France, the United Kingdom, Italy, Spain, and Rest of Europe)

Asia-Pacific (Japan, China, India, South Korea, and Rest of Asia-Pacific)

South America (Brazil, Argentina, and Rest of South America)

Rest of World

PEEK Implants Market by Product Type

Spinal Implants

Orthopedic Implants

Dental Implants

Craniomaxillofacial Implants

Other Implants (Including Trauma implants, Cardiovascular Implants, Custom Implants, and Others)

PEEK Implants Market by End-User

Hospitals

Ambulatory Surgical Centers (ASCs)

Other End-Users (Including Specialty Clinics, Rehabilitation Centers, and Research Institutions)

Contents

PART A: GLOBAL MARKET PERSPECTIVE

1. INTRODUCTION

Product Type Outline

PEEK Implants Defined

PEEK Implant Product Types

Spinal Implants

Orthopedic Implants

Dental Implants

Craniomaxillofacial Implants

Other Implants (Including Trauma implants, Cardiovascular Implants, Custom Implants, and Others)

PEEK Implant End-Users

Hospitals

Ambulatory Surgical Centers (ASCs)

Other End-Users (Including Specialty Clinics, Rehabilitation Centers, and Research Institutions)

2. Key Market Trends

3. Key Global Players

3D Systems Corporation

Cavendish Implants Ltd.

CONMED Corporation

Dental Technology Services

DiFusion Technologies, Inc.

Evonik Industries AG

HAPPE Spine

Innovasis, Inc.

Invibio Ltd.

Johnson & Johnson MedTech

Medtronic plc

Merz Dental GmbH

NuVasive, Inc.

SINTX Technologies, Inc.

Solvay SA

Stryker Corporation

Xilloc Medical Int B.V.

4. Key Business & Product Type Trends

5. Global Market Overview

Global PEEK Implants Market Overview by Product Type

PEEK Implants Market Overview for Product Type by Global Region

Spinal Implants

Orthopedic Implants

Dental Implants

Craniomaxillofacial Implants

Other Implants

Global PEEK Implants Market Overview by End-User

PEEK Implants End-User Market Overview by Global Region

Hospitals

Ambulatory Surgical Centers (ASCs)

Other End-Users

PART B: REGIONAL MARKET PERSPECTIVE

Global PEEK Implants Market Overview by Geographic Region

REGIONAL MARKET OVERVIEW

6. North America

North American PEEK Implants Market Overview by Geographic Region

North American PEEK Implants Market Overview by Product Type

North American PEEK Implants Market Overview by End-User

Country-wise Analysis of North American PEEK Implants Market

The United States

United States PEEK Implants Market Overview by Product Type

United States PEEK Implants Market Overview by End-User

Canada

Canadian PEEK Implants Market Overview by Product Type

Canadian PEEK Implants Market Overview by End-User

Mexico

Mexican PEEK Implants Market Overview by Product Type

Mexican PEEK Implants Market Overview by End-User

7. Europe

European PEEK Implants Market Overview by Geographic Region

European PEEK Implants Market Overview by Product Type

European PEEK Implants Market Overview by End-User

Country-wise Analysis of European PEEK Implants Market

Germany

German PEEK Implants Market Overview by Product Type

German PEEK Implants Market Overview by End-User

France

French PEEK Implants Market Overview by Product Type

French PEEK Implants Market Overview by End-User

The United Kingdom

United Kingdom PEEK Implants Market Overview by Product Type

United Kingdom PEEK Implants Market Overview by End-User

Italy

Italian PEEK Implants Market Overview by Product Type

Italian PEEK Implants Market Overview by End-User

Spain

Spanish PEEK Implants Market Overview by Product Type

Spanish PEEK Implants Market Overview by End-User

Rest of Europe

Rest of Europe PEEK Implants Market Overview by Product Type

Rest of Europe PEEK Implants Market Overview by End-User

8. Asia-Pacific

Asia-Pacific PEEK Implants Market Overview by Geographic Region

Asia-Pacific PEEK Implants Market Overview by Product Type

Asia-Pacific PEEK Implants Market Overview by End-User

Country-wise Analysis of Asia-Pacific PEEK Implants Market

Japan

Japanese PEEK Implants Market Overview by Product Type

Japanese PEEK Implants Market Overview by End-User

China

Chinese PEEK Implants Market Overview by Product Type

Chinese PEEK Implants Market Overview by End-User

India

Indian PEEK Implants Market Overview by Product Type

Indian PEEK Implants Market Overview by End-User

South Korea

South Korean PEEK Implants Market Overview by Product Type

South Korean PEEK Implants Market Overview by End-User

Rest of Asia-Pacific

Rest of Asia-Pacific PEEK Implants Market Overview by Product Type

Rest of Asia-Pacific PEEK Implants Market Overview by End-User

9. South America

South American PEEK Implants Market Overview by Geographic Region

South American PEEK Implants Market Overview by Product Type

South American PEEK Implants Market Overview by End-User

Country-wise Analysis of Asia-Pacific PEEK Implants Market

Brazil

Brazilian PEEK Implants Market Overview by Product Type

Brazilian PEEK Implants Market Overview by End-User

Argentina

Argentine PEEK Implants Market Overview by Product Type

Argentine PEEK Implants Market Overview by End-User

Rest of South America

Rest of South American PEEK Implants Market Overview by Product Type

Rest of South American PEEK Implants Market Overview by End-User

10. Rest of World

Rest of World PEEK Implants Market Overview by Product Type

Rest of World PEEK Implants Market Overview by End-User

PART C: GUIDE TO THE INDUSTRY

PART D: ANNEXURE

1. RESEARCH METHODOLOGY

2. FEEDBACK

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