

# **Polyimide Foam Market By Type (Rigid Foam, Flexible Foam) , By Application (Aerospace, Marine, Renewable Energy, Medical, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2032**

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## **Abstracts**

### **Polyimide Foam Market**

The polyimide foam market was valued at \$282.0 million in 2023 and is projected to reach \$419.9 million by 2032, growing at a CAGR of 4.5% from 2024 to 2032.

Polyimide foam is made from a specialized polymer characterized by its unique molecular structure. The polymer contains aromatic rings connected through imide linkages. The remarkable attributes of this polymer include fire-resistance, thermal stability, environmental friendliness, and lightweight. Polyimide acts as an acoustic damper and insulator, which makes it critical for high temperature applications such as rail installations, marine vessels, rocket fuels, and industrial equipment. The insulation capability of the polyimide foam is owing to its closed-cell structure which minimizes heat transfer through convection.

The aerospace and electronics & electrical industries are the key drivers of the polyimide foam market. Both aerospace applications and electronics benefit from the lightweight and shock-absorbing properties of the foam. Moreover, the foam is experiencing a high demand from the construction industry due to an increase in sustainable building practices which require significant thermal insulation and energy efficiency in buildings. Development of a nanocomposite foam derived from the assimilation of polyimide and graphene is an emerging trend in the market. The foam exhibits enhanced physical and structural properties, including mechanical robustness

and porosity. The foam is expected to have applications in sensing, flame resistance, radiation shielding, and oil/water separation.

However, the growth of the polyimide market is significantly impacted by the fluctuating prices and limited availability of raw materials such as polyimide raw materials. In addition, the industries utilizing polyimide foams in their applications remain highly sensitive to economic downturns, thereby impacting the demand for the foam. On the contrary, the foam is observing noteworthy boost in adoption in the residential & commercial settings due to its significant contribution toward energy saving and reducing environmental impact. As per the U.S. Department of Energy, in a residential space, heating and cooling contributes for about 50% of total energy consumption. Insulation by polyimide foam helps to lower energy bills as it reduces air leaks and decreases the heat transfer between indoor and outdoor surroundings.

## Segment Review

The polyimide foam market is segmented into type, application, and region. On the basis of type, the market is bifurcated into rigid foam and flexible foam. As per application, it is divided into aerospace, marine, renewable energy, medical, others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

## Key Findings

On the basis of type, the flexible foam segment is expected to remain dominant throughout the forecast period.

As per application, the aerospace segment is anticipated to be the largest shareholder during the forecast period.

Region wise, Asia-Pacific is predicted to be the largest revenue generator by 2032.

## Competition Analysis

The major players operating in the global polyimide foam market include Evonik Industries, UFP Technologies, Inc., DuPont, Polymer Technologies, Inc., Soundown, I.S.T, Boyd, Flexcon Company, Inc, The Claremont Sales Corporation, Pyrotek Inc., and Rogers Corporation. These players have adopted various key developmental strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the market.

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Manufacturing Capacity

Consumer Buying Behavior Analysis

End user preferences and pain points

Investment Opportunities

Product Benchmarking / Product specification and applications

Upcoming/New Entrant by Regions

Technology Trend Analysis

Consumer Preference and Product Specifications

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Average Selling Price Analysis / Price Point Analysis

Expanded list for Company Profiles

Historic market data

List of customers/consumers/raw material suppliers- value chain analysis

Market share analysis of players at global/region/country level

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Type

*Polyimide Foam Market By Type (Rigid Foam, Flexible Foam) , By Application (Aerospace, Marine, Renewable Energ...*

Rigid Foam

Flexible Foam

### By Application

Aerospace

Marine

Renewable Energy

Medical

Others

### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

UAE

Argentina

Rest of LAMEA

Key Market Players

Evonik Industries

UFP Technologies, Inc.

DuPont

Polymer Technologies, Inc.

Soundown, I.S.T

Boyd

Flexcon Company, Inc

The Claremont Sales Corporation

Pyrotek Inc.

Rogers Corporation

## Contents

### **CHAPTER 1: INTRODUCTION**

- 1.1. Report Description
- 1.2. Key Market Segments
- 1.3. Key Benefits
- 1.4. Research Methodology
  - 1.4.1. Primary Research
  - 1.4.2. Secondary Research
  - 1.4.3. Analyst Tools and Models

### **CHAPTER 2: EXECUTIVE SUMMARY**

- 2.1. CXO Perspective

### **CHAPTER 3: MARKET LANDSCAPE**

- 3.1. Market Definition and Scope
- 3.2. Key Findings
  - 3.2.1. Top Investment Pockets
  - 3.2.2. Top Winning Strategies
- 3.3. Porter's Five Forces Analysis
  - 3.3.1. Bargaining Power of Suppliers
  - 3.3.2. Threat of New Entrants
  - 3.3.3. Threat of Substitutes
  - 3.3.4. Competitive Rivalry
  - 3.3.5. Bargaining Power among Buyers
- 3.4. Market Dynamics
  - 3.4.1. Drivers
  - 3.4.2. Restraints
  - 3.4.3. Opportunities

### **CHAPTER 4: MEDICAL IMPLANT MARKET, BY PRODUCT**

- 4.1. Market Overview
  - 4.1.1 Market Size and Forecast, By Product
- 4.2. Orthopedic Implants
  - 4.2.1. Key Market Trends, Growth Factors and Opportunities



- 4.2.2. Market Size and Forecast, By Region
- 4.2.3. Market Share Analysis, By Country
- 4.2.5. Reconstructive Joint Replacements
  - 4.2.5.1. Market Size and Forecast
  - 4.2.5.2. Knee Replacement Implants
    - 4.2.5.2.1. Market Size and Forecast
  - 4.2.5.2. Hip Replacement Implants
    - 4.2.5.2.1. Market Size and Forecast
  - 4.2.5.2. Extremities
    - 4.2.5.2.1. Market Size and Forecast
- 4.2.6. Orthobiologics
  - 4.2.6.1. Market Size and Forecast
- 4.2.7. Trauma and Craniomaxillofacial
  - 4.2.7.1. Market Size and Forecast
- 4.3. Cardiovascular Implants
  - 4.3.1. Key Market Trends, Growth Factors and Opportunities
  - 4.3.2. Market Size and Forecast, By Region
  - 4.3.3. Market Share Analysis, By Country
  - 4.3.5. Pacing Devices
    - 4.3.5.1. Market Size and Forecast
    - 4.3.5.2. Cardiac Resynchronization Therapy Devices (CRTs)
      - 4.3.5.2.1. Market Size and Forecast
      - 4.3.5.2.2. CRT-P (CRT with pacemaker function)
        - 4.3.5.2.2.1. Market Size and Forecast
      - 4.3.5.2.2. CRT-D (CRT with pacemaker and ICD function)
        - 4.3.5.2.2.1. Market Size and Forecast
    - 4.3.5.2. Implantable Cardioverter Defibrillators (ICDs)
      - 4.3.5.2.1. Market Size and Forecast
    - 4.3.5.2. Implantable Cardiac Pacemakers (ICPs)
      - 4.3.5.2.1. Market Size and Forecast
  - 4.3.6. Stents
    - 4.3.6.1. Market Size and Forecast
    - 4.3.6.2. Coronary stents
      - 4.3.6.2.1. Market Size and Forecast
      - 4.3.6.2.2. Drug-eluting Stents (DES)
        - 4.3.6.2.2.1. Market Size and Forecast
      - 4.3.6.2.2. Bare-metal Coronary Stents
        - 4.3.6.2.2.1. Market Size and Forecast
      - 4.3.6.2.2. Bioabsorbable Stents

- 4.3.6.2.2.1. Market Size and Forecast
- 4.3.6.2. Peripheral stents
  - 4.3.6.2.1. Market Size and Forecast
  - 4.3.6.2.2. Iliac
    - 4.3.6.2.2.1. Market Size and Forecast
  - 4.3.6.2.2. Femoral-Popliteal
    - 4.3.6.2.2.1. Market Size and Forecast
  - 4.3.6.2.2. Renal
    - 4.3.6.2.2.1. Market Size and Forecast
  - 4.3.6.2.2. Carotid
    - 4.3.6.2.2.1. Market Size and Forecast
- 4.3.6.2. Stent-related Implants
  - 4.3.6.2.1. Market Size and Forecast
  - 4.3.6.2.2. Synthetic Grafts
    - 4.3.6.2.2.1. Market Size and Forecast
  - 4.3.6.2.2. Vena Cava Filters
    - 4.3.6.2.2.1. Market Size and Forecast
- 4.3.7. Structural Cardiac Implants
  - 4.3.7.1. Market Size and Forecast
  - 4.3.7.2. Mechanical Heart Valves
    - 4.3.7.2.1. Market Size and Forecast
  - 4.3.7.2. Implantable Ventricular-assist Devices
    - 4.3.7.2.1. Market Size and Forecast
    - 4.3.7.2.2. LVAD
      - 4.3.7.2.2.1. Market Size and Forecast
    - 4.3.7.2.2. RVAD
      - 4.3.7.2.2.1. Market Size and Forecast
    - 4.3.7.2.2. BIVAD
      - 4.3.7.2.2.1. Market Size and Forecast
- 4.4. Spinal Implants
  - 4.4.1. Key Market Trends, Growth Factors and Opportunities
  - 4.4.2. Market Size and Forecast, By Region
  - 4.4.3. Market Share Analysis, By Country
  - 4.4.5. Spinal fusion implants
    - 4.4.5.1. Market Size and Forecast
  - 4.4.6. Spinal bone stimulators
    - 4.4.6.1. Market Size and Forecast
  - 4.4.7. Vertebral Compression Fracture (VCF) Devices
    - 4.4.7.1. Market Size and Forecast

- 4.4.8. Motion Preservation Devices/Non-Fusion Devices
  - 4.4.8.1. Market Size and Forecast
- 4.5. Neurostimulators
  - 4.5.1. Key Market Trends, Growth Factors and Opportunities
  - 4.5.2. Market Size and Forecast, By Region
  - 4.5.3. Market Share Analysis, By Country
  - 4.5.5. Deep Brain Stimulation
    - 4.5.5.1. Market Size and Forecast
  - 4.5.6. Sacral Nerve Stimulation
    - 4.5.6.1. Market Size and Forecast
  - 4.5.7. Vagus Nerve Stimulation
    - 4.5.7.1. Market Size and Forecast
  - 4.5.8. Spinal Cord Stimulation
    - 4.5.8.1. Market Size and Forecast
  - 4.5.9. Other neurostimulators
    - 4.5.9.1. Market Size and Forecast
- 4.6. Ophthalmic Implants
  - 4.6.1. Key Market Trends, Growth Factors and Opportunities
  - 4.6.2. Market Size and Forecast, By Region
  - 4.6.3. Market Share Analysis, By Country
  - 4.6.5. Intraocular Lens
    - 4.6.5.1. Market Size and Forecast
  - 4.6.6. Glaucoma Implants
    - 4.6.6.1. Market Size and Forecast
- 4.7. Dental Implants
  - 4.7.1. Key Market Trends, Growth Factors and Opportunities
  - 4.7.2. Market Size and Forecast, By Region
  - 4.7.3. Market Share Analysis, By Country
  - 4.7.5. Plate Form Dental Implants
    - 4.7.5.1. Market Size and Forecast
  - 4.7.6. Root Form Dental Implants
    - 4.7.6.1. Market Size and Forecast
- 4.8. Facial Implants
  - 4.8.1. Key Market Trends, Growth Factors and Opportunities
  - 4.8.2. Market Size and Forecast, By Region
  - 4.8.3. Market Share Analysis, By Country
- 4.9. Breast Implants
  - 4.9.1. Key Market Trends, Growth Factors and Opportunities
  - 4.9.2. Market Size and Forecast, By Region

#### 4.9.3. Market Share Analysis, By Country

### **CHAPTER 5: MEDICAL IMPLANT MARKET, BY BIOMATERIAL TYPE**

#### 5.1. Market Overview

##### 5.1.1 Market Size and Forecast, By Biomaterial Type

#### 5.2. Metallic Biomaterials

##### 5.2.1. Key Market Trends, Growth Factors and Opportunities

##### 5.2.2. Market Size and Forecast, By Region

##### 5.2.3. Market Share Analysis, By Country

#### 5.3. Ceramic Biomaterials

##### 5.3.1. Key Market Trends, Growth Factors and Opportunities

##### 5.3.2. Market Size and Forecast, By Region

##### 5.3.3. Market Share Analysis, By Country

#### 5.4. Polymers Biomaterials

##### 5.4.1. Key Market Trends, Growth Factors and Opportunities

##### 5.4.2. Market Size and Forecast, By Region

##### 5.4.3. Market Share Analysis, By Country

#### 5.5. Natural Biomaterials

##### 5.5.1. Key Market Trends, Growth Factors and Opportunities

##### 5.5.2. Market Size and Forecast, By Region

##### 5.5.3. Market Share Analysis, By Country

### **CHAPTER 6: MEDICAL IMPLANT MARKET, BY REGION**

#### 6.1. Market Overview

##### 6.1.1 Market Size and Forecast, By Region

#### 6.2. North America

##### 6.2.1. Key Market Trends and Opportunities

##### 6.2.2. Market Size and Forecast, By Product

##### 6.2.3. Market Size and Forecast, By Biomaterial Type

##### 6.2.4. Market Size and Forecast, By Country

##### 6.2.5. U.S. Medical Implant Market

###### 6.2.5.1. Market Size and Forecast, By Product

###### 6.2.5.2. Market Size and Forecast, By Biomaterial Type

##### 6.2.6. Canada Medical Implant Market

###### 6.2.6.1. Market Size and Forecast, By Product

###### 6.2.6.2. Market Size and Forecast, By Biomaterial Type

##### 6.2.7. Mexico Medical Implant Market

6.2.7.1. Market Size and Forecast, By Product

6.2.7.2. Market Size and Forecast, By Biomaterial Type

### 6.3. Europe

6.3.1. Key Market Trends and Opportunities

6.3.2. Market Size and Forecast, By Product

6.3.3. Market Size and Forecast, By Biomaterial Type

6.3.4. Market Size and Forecast, By Country

6.3.5. France Medical Implant Market

6.3.5.1. Market Size and Forecast, By Product

6.3.5.2. Market Size and Forecast, By Biomaterial Type

6.3.6. Germany Medical Implant Market

6.3.6.1. Market Size and Forecast, By Product

6.3.6.2. Market Size and Forecast, By Biomaterial Type

6.3.7. Italy Medical Implant Market

6.3.7.1. Market Size and Forecast, By Product

6.3.7.2. Market Size and Forecast, By Biomaterial Type

6.3.8. Spain Medical Implant Market

6.3.8.1. Market Size and Forecast, By Product

6.3.8.2. Market Size and Forecast, By Biomaterial Type

6.3.9. UK Medical Implant Market

6.3.9.1. Market Size and Forecast, By Product

6.3.9.2. Market Size and Forecast, By Biomaterial Type

6.3.10. Rest of Europe Medical Implant Market

6.3.10.1. Market Size and Forecast, By Product

6.3.10.2. Market Size and Forecast, By Biomaterial Type

### 6.4. Asia-Pacific

6.4.1. Key Market Trends and Opportunities

6.4.2. Market Size and Forecast, By Product

6.4.3. Market Size and Forecast, By Biomaterial Type

6.4.4. Market Size and Forecast, By Country

6.4.5. China Medical Implant Market

6.4.5.1. Market Size and Forecast, By Product

6.4.5.2. Market Size and Forecast, By Biomaterial Type

6.4.6. Japan Medical Implant Market

6.4.6.1. Market Size and Forecast, By Product

6.4.6.2. Market Size and Forecast, By Biomaterial Type

6.4.7. India Medical Implant Market

6.4.7.1. Market Size and Forecast, By Product

6.4.7.2. Market Size and Forecast, By Biomaterial Type

- 6.4.8. South Korea Medical Implant Market
  - 6.4.8.1. Market Size and Forecast, By Product
  - 6.4.8.2. Market Size and Forecast, By Biomaterial Type
- 6.4.9. Australia Medical Implant Market
  - 6.4.9.1. Market Size and Forecast, By Product
  - 6.4.9.2. Market Size and Forecast, By Biomaterial Type
- 6.4.10. Rest of Asia-Pacific Medical Implant Market
  - 6.4.10.1. Market Size and Forecast, By Product
  - 6.4.10.2. Market Size and Forecast, By Biomaterial Type

## 6.5. LAMEA

- 6.5.1. Key Market Trends and Opportunities
- 6.5.2. Market Size and Forecast, By Product
- 6.5.3. Market Size and Forecast, By Biomaterial Type
- 6.5.4. Market Size and Forecast, By Country
- 6.5.5. Brazil Medical Implant Market
  - 6.5.5.1. Market Size and Forecast, By Product
  - 6.5.5.2. Market Size and Forecast, By Biomaterial Type
- 6.5.6. South Africa Medical Implant Market
  - 6.5.6.1. Market Size and Forecast, By Product
  - 6.5.6.2. Market Size and Forecast, By Biomaterial Type
- 6.5.7. Saudi Arabia Medical Implant Market
  - 6.5.7.1. Market Size and Forecast, By Product
  - 6.5.7.2. Market Size and Forecast, By Biomaterial Type
- 6.5.8. Rest of LAMEA Medical Implant Market
  - 6.5.8.1. Market Size and Forecast, By Product
  - 6.5.8.2. Market Size and Forecast, By Biomaterial Type

## CHAPTER 7: COMPETITIVE LANDSCAPE

- 7.1. Introduction
- 7.2. Top Winning Strategies
- 7.3. Product Mapping of Top 10 Player
- 7.4. Competitive Dashboard
- 7.5. Competitive Heatmap
- 7.6. Top Player Positioning, 2023

## CHAPTER 8: COMPANY PROFILES

- 8.1. Biotronik

- 8.1.1. Company Overview
- 8.1.2. Key Executives
- 8.1.3. Company Snapshot
- 8.1.4. Operating Business Segments
- 8.1.5. Product Portfolio
- 8.1.6. Business Performance
- 8.1.7. Key Strategic Moves and Developments
- 8.2. Boston Scientific Corporation
  - 8.2.1. Company Overview
  - 8.2.2. Key Executives
  - 8.2.3. Company Snapshot
  - 8.2.4. Operating Business Segments
  - 8.2.5. Product Portfolio
  - 8.2.6. Business Performance
  - 8.2.7. Key Strategic Moves and Developments
- 8.3. CONMED Corporation
  - 8.3.1. Company Overview
  - 8.3.2. Key Executives
  - 8.3.3. Company Snapshot
  - 8.3.4. Operating Business Segments
  - 8.3.5. Product Portfolio
  - 8.3.6. Business Performance
  - 8.3.7. Key Strategic Moves and Developments
- 8.4. Globus Medical, Inc.
  - 8.4.1. Company Overview
  - 8.4.2. Key Executives
  - 8.4.3. Company Snapshot
  - 8.4.4. Operating Business Segments
  - 8.4.5. Product Portfolio
  - 8.4.6. Business Performance
  - 8.4.7. Key Strategic Moves and Developments
- 8.5. Institut Straumann AG
  - 8.5.1. Company Overview
  - 8.5.2. Key Executives
  - 8.5.3. Company Snapshot
  - 8.5.4. Operating Business Segments
  - 8.5.5. Product Portfolio
  - 8.5.6. Business Performance
  - 8.5.7. Key Strategic Moves and Developments

## 8.6. Integra LifeSciences Holdings Corporation

- 8.6.1. Company Overview
- 8.6.2. Key Executives
- 8.6.3. Company Snapshot
- 8.6.4. Operating Business Segments
- 8.6.5. Product Portfolio
- 8.6.6. Business Performance
- 8.6.7. Key Strategic Moves and Developments

## 8.7. LivaNova PLC

- 8.7.1. Company Overview
- 8.7.2. Key Executives
- 8.7.3. Company Snapshot
- 8.7.4. Operating Business Segments
- 8.7.5. Product Portfolio
- 8.7.6. Business Performance
- 8.7.7. Key Strategic Moves and Developments

## 8.8. Medtronic Plc

- 8.8.1. Company Overview
- 8.8.2. Key Executives
- 8.8.3. Company Snapshot
- 8.8.4. Operating Business Segments
- 8.8.5. Product Portfolio
- 8.8.6. Business Performance
- 8.8.7. Key Strategic Moves and Developments

## 8.9. NuVasive, Inc.

- 8.9.1. Company Overview
- 8.9.2. Key Executives
- 8.9.3. Company Snapshot
- 8.9.4. Operating Business Segments
- 8.9.5. Product Portfolio
- 8.9.6. Business Performance
- 8.9.7. Key Strategic Moves and Developments

## 8.10. Johnson And Johnson

- 8.10.1. Company Overview
- 8.10.2. Key Executives
- 8.10.3. Company Snapshot
- 8.10.4. Operating Business Segments
- 8.10.5. Product Portfolio
- 8.10.6. Business Performance



### 8.10.7. Key Strategic Moves and Developments

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