

Global Medical Grade TPU Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Medical Grade TPU market size was valued at US\$ 286 million in 2024 and is forecast to a readjusted size of USD 438 million by 2031 with a CAGR of 6.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Medical polyurethane thermoplastic elastomer (TPU) is a versatile polymer material used in the production of various medical devices and healthcare applications. It combines the elasticity of rubber with the durability of plastics, making it an ideal choice for products that require flexibility, strength, and biocompatibility.

Key Characteristics:

Biocompatibility: TPU is safe for use in medical applications and can interact with biological tissues without causing adverse reactions.

Flexibility: It can stretch and bend, returning to its original shape, which is crucial for applications requiring both flexibility and durability.

Durability: TPU is resistant to wear, tear, and abrasion, making it suitable for long-term and high-use medical devices.

Chemical Resistance: It is resistant to chemicals and sterilization processes, ensuring

longevity in medical environments.

Transparency: TPU can be transparent, enabling medical professionals to monitor fluids in devices like catheters and tubing.

Sterilizability: It withstands sterilization methods like steam, gamma radiation, and ethylene oxide, which is critical for maintaining hygiene standards.

Growing Use in Medical Devices: TPUs are widely used in the production of medical devices like catheters, surgical instruments, gloves, and drug delivery systems due to their superior flexibility, biocompatibility, and durability.

Aging Population: The aging global population, especially in regions like North America, Europe, and parts of Asia, is driving the demand for medical equipment that relies on TPU materials, such as orthopedic devices and cardiovascular stents.

Chronic Disease Management: Rising incidences of chronic diseases, including diabetes and heart disease, have increased the need for medical-grade materials that can be used in wearable and implantable devices.

Customization and Flexibility: Manufacturers are focusing on enhancing TPU's properties, such as antimicrobial resistance, higher tensile strength, and greater flexibility, to meet the growing needs of customized medical applications.

Innovation in Biodegradable and Sustainable Materials: With increasing focus on sustainability, some TPU manufacturers are developing eco-friendly, biodegradable versions for medical uses. This aligns with the global shift toward greener materials.

Growth of Wearable Medical Devices: The rise in wearable technology in healthcare, such as continuous glucose monitors (CGMs) and fitness tracking devices, is increasing the demand for soft, skin-friendly TPUs that can comfortably come into contact with human skin for extended periods.

North America and Europe Leading Innovation: These regions have a high demand for advanced medical devices and equipment, driven by robust healthcare systems and R&D investment. The U.S. dominates the market due to its advanced healthcare infrastructure and stringent regulatory frameworks.

Asia-Pacific Growth Surge: Emerging markets in the Asia-Pacific region, such as China, India, and Southeast Asia, are experiencing rapid growth in the medical TPU market

due to expanding healthcare infrastructure, rising income levels, and increasing medical tourism.

Expanding Healthcare Infrastructure in Developing Regions: Developing regions like Latin America, the Middle East, and Africa are witnessing increased investments in healthcare, leading to more demand for advanced medical materials like TPU.

This report is a detailed and comprehensive analysis for global Medical Grade TPU market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Medical Grade TPU market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Medical Grade TPU market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Medical Grade TPU market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Medical Grade TPU market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Medical Grade TPU
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Medical Grade TPU market based on the

following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lubrizol, BASF, Covestro, Wanhua Chemical, Huntsman, Trinseo, Hexpol, Kuraray, COIM Group, Avient, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Medical Grade TPU market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Polyester-based TPU

Polyether-based TPU

Other

Market segment by Application

Interventional Catheters

Orthopedic Implants

Foam Dressings

Family Planning Products

Artificial Organs

Other

Major players covered

Lubrizol

BASF

Covestro

Wanhua Chemical

Huntsman

Trinseo

Hexpol

Kuraray

COIM Group

Avient

Epaflex

Sichuan Youborui New Material

Miracll Chemicals

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Medical Grade TPU product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Medical Grade TPU, with price, sales quantity, revenue, and global market share of Medical Grade TPU from 2020 to 2025. Chapter 3, the Medical Grade TPU competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Medical Grade TPU breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Medical Grade TPU market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Medical Grade TPU.

Chapter 14 and 15, to describe Medical Grade TPU sales channel, distributors, customers, research findings and conclusion.

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