

Global Medical Grade Thermoplastic Polyurethanes (TPU) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Medical Grade Thermoplastic Polyurethanes (TPU) market size is expected to reach \$ 535 million by 2032, rising at a market growth of 6.8% CAGR during the forecast period (2026-2032).

Medical grade thermoplastic polyurethane is a high-performance thermoplastic elastomer developed for medical devices, healthcare consumables, and clinical care applications. It is commonly supplied in the form of pellets, granules, films, sheets, tubes, profiles, or compounded materials. Compared with general-purpose industrial TPU, medical grade TPU places greater emphasis on biocompatibility, lot-to-lot consistency, traceability, sterilization resistance, transparency, flexibility, hydrolysis resistance, abrasion resistance, and processing stability. Major material chemistries include polyether-based TPU, polyester-based TPU, and polycarbonate-based TPU.

Medical grade TPU is mainly used in catheters, infusion tubing, dialysis tubing, respiratory and anesthesia tubing, wound-care films, wearable medical patches, flexible medical device components, medical bags, pump tubing, connectors, and short-term contact medical components. Major production and supply regions are concentrated in the United States, Germany, China, Japan, South Korea, and Taiwan, where medical polymer materials, medical devices, and precision processing industries are relatively well developed.

In 2025, global medical grade thermoplastic polyurethane production reached approximately 24.0 thousand to 27.0 thousand tons, with mainstream FOB prices ranging from USD 12,200 to USD 14,200 per ton. The product represents a high-value medical polymer material and is priced significantly above general industrial TPU, mainly due to biocompatibility testing, medical regulatory documentation, batch

consistency requirements, clean production management, customer validation cycles, and a higher proportion of high-end medical device applications.

The global medical grade thermoplastic polyurethane market is moving from conventional medical consumable materials toward higher-performance medical functional materials. With the rapid development of minimally invasive intervention, home healthcare, wearable monitoring, chronic disease management, and precision drug delivery devices, medical device manufacturers are increasingly demanding materials that combine flexibility, transparency, kink resistance, sterilization resistance, and strong biocompatibility. Medical grade TPU offers a balanced combination of processing efficiency and clinical safety in catheters, tubing, films, patches, medical bags, and flexible connectors, giving it strong substitution potential against selected PVC, silicone, rubber, and conventional polyolefin materials. In catheters, wound-care films, wearable medical patches, and drug delivery systems, material performance is no longer only a cost factor; it directly affects patient comfort, device reliability, and regulatory efficiency.

At the same time, the market faces high entry barriers and supply-chain risks. Medical grade TPU must not only meet material performance requirements but also support medical device manufacturers through validation processes involving biocompatibility, sterilization compatibility, extractables and leachables, regulatory documentation, long-term supply stability, and change control. Customer switching costs are high, and qualification cycles are long. In the near term, companies in Europe, the United States, and Japan are expected to retain advantages in high-end medical TPU resins, implantable-grade materials, and regulatory support systems, while manufacturers in China, Taiwan, and South Korea are accelerating their presence in films, compounds, medical tubing, and downstream processing. Future growth will be driven more by high-value applications than by simple capacity expansion. Companies that can combine material development, regulatory support, stable mass production, and downstream processing collaboration will be better positioned to enter the core supply chain of global medical device manufacturers.

This report studies the global Medical Grade Thermoplastic Polyurethanes (TPU) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical Grade Thermoplastic Polyurethanes (TPU) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Medical Grade

Thermoplastic Polyurethanes (TPU) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Medical Grade Thermoplastic Polyurethanes (TPU) total production and demand, 2021-2032, (Tons)

Global Medical Grade Thermoplastic Polyurethanes (TPU) total production value, 2021-2032, (USD Million)

Global Medical Grade Thermoplastic Polyurethanes (TPU) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Medical Grade Thermoplastic Polyurethanes (TPU) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Medical Grade Thermoplastic Polyurethanes (TPU) domestic production, consumption, key domestic manufacturers and share

Global Medical Grade Thermoplastic Polyurethanes (TPU) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Medical Grade Thermoplastic Polyurethanes (TPU) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Medical Grade Thermoplastic Polyurethanes (TPU) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Medical Grade Thermoplastic Polyurethanes (TPU) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Lubrizol Corporation, Covestro AG, BASF SE, Wanhua Chemical Group Co., Ltd., Avient Corporation, GEON Performance Solutions, RTP Company, HEXPOL AB, Huntsman Corporation, ICP DAS Biomedical Polymers, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Medical Grade Thermoplastic Polyurethanes (TPU) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Medical Grade Thermoplastic Polyurethanes (TPU) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical Grade Thermoplastic Polyurethanes (TPU) Market, Segmentation by Type:

Pellets and Granules

Films and Sheets

Extruded Tubes and Profiles

Others

Global Medical Grade Thermoplastic Polyurethanes (TPU) Market, Segmentation by Chemistry:

Polyether TPU

Polyester TPU

Polycarbonate TPU

Others

Global Medical Grade Thermoplastic Polyurethanes (TPU) Market, Segmentation by Processing Method:

Extrusion

Injection Molding

Film Casting and Calendering

Others

Global Medical Grade Thermoplastic Polyurethanes (TPU) Market, Segmentation by Transparency:

Transparent Grades

Translucent Grades

Opaque and Color Matched Grades

Global Medical Grade Thermoplastic Polyurethanes (TPU) Market, Segmentation by Application:

External Communicating Devices

Surface Contact Devices

Short Term Implantable Devices

Others

Companies Profiled:

Lubrizol Corporation

Covestro AG

BASF SE

Wanhua Chemical Group Co., Ltd.

Avient Corporation

GEON Performance Solutions

RTP Company

HEXPOL AB

Huntsman Corporation

ICP DAS Biomedical Polymers

American Polyfilm, Inc.

Mativ Holdings, Inc.

Permali Gloucester Ltd.

UFP Technologies, Inc.

Prochase Enterprise Co., Ltd.

DingZing Advanced Materials Inc.

Zhongshan Breathtex Speciality Material Co., Ltd.

Tosoh Corporation

Key Questions Answered:

1. How big is the global Medical Grade Thermoplastic Polyurethanes (TPU) market?
2. What is the demand of the global Medical Grade Thermoplastic Polyurethanes (TPU) market?
3. What is the year over year growth of the global Medical Grade Thermoplastic Polyurethanes (TPU) market?
4. What is the production and production value of the global Medical Grade Thermoplastic Polyurethanes (TPU) market?
5. Who are the key producers in the global Medical Grade Thermoplastic Polyurethanes (TPU) market?
6. What are the growth factors driving the market demand?

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