

Global Thermoplastic Polymer Microfluidic Chip 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 Thermoplastic Polymer Microfluidic Chip market size was valued at US\$ 493 million in 2024 and is forecast to a readjusted size of USD 723 million by 2031 with a CAGR of 5.7% 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.

Thermoplastic polymer microfluidic chips refer to the use of thermoplastic polymer materials (such as polymethyl methacrylate PMMA, polycarbonate PC, polyethylene terephthalate PET, etc.) as the substrate, and the micro-scale fluid channel network is constructed on the surface or inside of the material through micro-processing technology to achieve the functions of precise control, mixing, separation, reaction and detection of fluids. Miniaturized chip system. The production process of thermoplastic polymer microfluidic chips mainly includes mold design, material injection molding, microchannel processing and chip packaging. Among them, injection molding is a commonly used processing method for thermoplastic polymer chips, which has the advantages of low cost, high efficiency and easy mass production.

Thermoplastic polymer microfluidic chips are widely used in biomedicine, chemical analysis, environmental monitoring and other fields. Especially in the biomedical field, its applications include drug screening, gene sequencing, disease diagnosis and other aspects, and have broad market prospects. With the continuous progress of materials science, micro-nano processing technology and microelectronics, the technology of thermoplastic polymer microfluidic chips is also constantly innovating. For example, by

improving processing technology and optimizing material properties, the sensitivity, stability and service life of the chip can be improved. Thermoplastic polymer microfluidic chips have broad application prospects in biomedicine, chemical analysis, environmental monitoring and other fields. In the future, with the continuous maturity of technology and the continuous expansion of application scenarios, its market demand will further increase.

This report is a detailed and comprehensive analysis for global Thermoplastic Polymer Microfluidic Chip 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 Thermoplastic Polymer Microfluidic Chip market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Thermoplastic Polymer Microfluidic Chip market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Thermoplastic Polymer Microfluidic Chip market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2020-2031

Global Thermoplastic Polymer Microfluidic Chip market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 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 Thermoplastic Polymer Microfluidic Chip
- 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 Thermoplastic Polymer Microfluidic Chip 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 Dolomite Microfluidics, Micronit Microtechnologies, Fluigent, Microfluidic ChipShop, ThinXXS Microtechnology, uFluidix, Elveflow, Bio-Bio Group, BOE Technology Group, Dingxu Micro Control Technology, etc.

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

Market Segmentation

Thermoplastic Polymer Microfluidic Chip 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

Single Layer

Multilayer

Market segment by Application

Biomedicine

Chemical Analysis

Material Science

Other

Major players covered

Dolomite Microfluidics

Micronit Microtechnologies

Fluigent

Microfluidic ChipShop

ThinXXS Microtechnology

uFluidix

Elveflow

Bio-Bio Group

BOE Technology Group

Dingxu Micro Control Technology

Micuplo Microfluidics

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 Thermoplastic Polymer Microfluidic Chip product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermoplastic Polymer Microfluidic Chip, with price, sales quantity, revenue, and global market share of Thermoplastic Polymer Microfluidic Chip from 2020 to 2025.

Chapter 3, the Thermoplastic Polymer Microfluidic Chip competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermoplastic Polymer Microfluidic Chip 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 Thermoplastic Polymer Microfluidic Chip 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 Thermoplastic Polymer Microfluidic Chip.

Chapter 14 and 15, to describe Thermoplastic Polymer Microfluidic Chip sales channel, distributors, customers, research findings and conclusion.

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